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L3 60 SEA FILE=REGISTRY SSS FUL L1

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=> => d rn cn 13 1-60

- L3 ANSWER 1 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 714975-85-6 REGISTRY
- CN Acetic acid ethenyl ester, polymer with ethene and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monoammonium salt (9CI) (CA INDEX NAME)

- L3 ANSWER 2 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 714975-84-5 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monoammonium salt (9CI) (CA INDEX NAME)
- L3 ANSWER 3 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 608537-31-1 REGISTRY
- CN 2-Propenamide, N-(3-aminopropyl)-, monohydrochloride, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenamide, graft (9CI) (CA INDEX NAME)
- L3 ANSWER 4 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 471283-24-6 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with 2-propenamide and sodium ethenesulfonate (9CI) (CA INDEX NAME)
- L3 ANSWER 5 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 471283-23-5 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with 2-propenamide (9CI) (CA INDEX NAME)
- L3 ANSWER 6 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 471283-22-4 REGISTRY
- CN 2-Propenoic acid, sodium salt, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-propenamide (9CI) (CA INDEX NAME)
- L3 ANSWER 7 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 342427-29-6 REGISTRY
- CN Benzenemethanaminium, N,N,N-trimethyl-, hydroxide, compd. with N-(3-aminopropyl)-2-propenamide monohydrochloride polymer with 2-propenoic acid (9CI) (CA INDEX NAME)
- OTHER CA INDEX NAMES:
- CN 2-Propenamide, N-(3-aminopropyl)-, monohydrochloride, polymer with 2-propenoic acid, compd. with N,N,N-trimethylbenzenemethanaminium hydroxide (9CI)
- CN 2-Propenoic acid, polymer with N-(3-aminopropyl)-2-propenamide monohydrochloride, compd. with N,N,N-trimethylbenzenemethanaminium hydroxide (9CI)
- L3 ANSWER 8 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 342427-28-5 REGISTRY
- CN 2-Propenoic acid, polymer with N-(3-aminopropyl)-2-propenamide monohydrochloride (9CI) (CA INDEX NAME)
- OTHER CA INDEX NAMES:
- CN 2-Propenamide, N-(3-aminopropyl)-, monohydrochloride, polymer with 2-propenoic acid (9CI)
- L3 ANSWER 9 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 331827-87-3 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, compd. with N,N-dimethylmethanamine (1:1), polymer with 2-propenamide (9CI) (CA INDEX NAME)
- OTHER CA INDEX NAMES:
- CN 2-Propenamide, polymer with N,N-dimethylmethanamine 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonate (9CI)
- CN Methanamine, N, N-dimethyl-, 3-[(1-oxo-2-propenyl)amino]-1-

propanesulfonate, polymer with 2-propenamide (9CI)

- L3 ANSWER 10 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 331827-86-2 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, compd. with N,N-dimethylmethanamine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN Methanamine, N,N-dimethyl-, 3-{(1-oxo-2-propenyl)amino}-1-propanesulfonate (9CI)
- L3 ANSWER 11 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 266326-09-4 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with hexyl 2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with hexyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI)
- CN 2-Propenoic acid, hexyl ester, polymer with methyl 2-methyl-2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt (9CI)

OTHER NAMES:

- CN Hexyl acrylate-methyl methacrylate-sodium acrylamidopropanesulfonate copolymer
- L3 ANSWER 12 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 219613-65-7 REGISTRY
- CN 2-Propenamide, N-(3-aminopropyl)-, monohydrochloride, homopolymer (9CI) (CA INDEX NAME)
- L3 ANSWER 13 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 176648-60-5 REGISTRY
- CN 2-Propenamide, N-(3-aminopropyl)-, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN Benzene, ethenyl-, polymer with N-(3-aminopropyl)-2-propenamide (9CI)
- L3 ANSWER 14 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 161284-24-8 REGISTRY
- CN β -Alanine, N-(1-oxo-2-propenyl)-, polymer with N-(3-aminopropyl)-2-propenamide monohydrochloride and N-[2-(2-methoxyethoxy)ethyl]-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 2-Propenamide, N-(3-aminopropyl)-, monohydrochloride, polymer with N-[2-(2-methoxyethoxy)ethyl]-2-methyl-2-propenamide and N-(1-oxo-2-propenyl)- β -alanine (9CI)
- CN 2-Propenamide, N-[2-(2-methoxyethoxy)ethyl]-2-methyl-, polymer with
 N-(3-aminopropyl)-2-propenamide monohydrochloride and N-(1-oxo-2-propenyl)β-alanine (9CI)
- L3 ANSWER 15 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 161284-23-7 REGISTRY
- CN 2-Propenamide, N-(3-aminopropyl)-, monohydrochloride, polymer with 2-propenamide and N-[(tetrahydro-2-furanyl)methyl]-2-propenamide (9CI) (CA INDEX NAME)

- CN 2-Propenamide, N-[(tetrahydro-2-furanyl)methyl]-, polymer with N-(3-aminopropyl)-2-propenamide monohydrochloride and 2-propenamide (9CI)
- CN 2-Propenamide, polymer with N-(3-aminopropyl)-2-propenamide

monohydrochloride and N-[(tetrahydro-2-furanyl)methyl]-2-propenamide (9CI)

- L3 ANSWER 16 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 161029-61-4 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(2-methyl-1-oxo-2-propenyl)amino]-, monopotassium salt, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monopotassium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monopotassium salt, polymer with 3-[(2-methyl-1-oxo-2-propenyl)amino]-1-propanesulfonic acid monopotassium salt (9CI)
- L3 ANSWER 17 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 160379-57-7 REGISTRY
- CN 2-Propenoic acid, polymer with butyl 2-propenoate, ethyl 2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with butyl 2-propenoate, ethyl 2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, butyl ester, polymer with ethyl 2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, ethyl ester, polymer with butyl 2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- L3 ANSWER 18 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 150567-68-3 REGISTRY
- CN 2-Propenamide, N-(3-aminopropyl)-, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 2-Pyrrolidinone, 1-ethenyl-, polymer with N-(3-aminopropyl)-2-propenamide (9CI)
- L3 ANSWER 19 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 148053-39-8 REGISTRY
- CN 2-Propenoic acid, butyl ester, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with butyl 2-propenoate (9CI)
- L3 ANSWER 20 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 145273-29-6 REGISTRY
- CN 2-Propenoic acid, lithium salt, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt (9CI) (CA INDEX NAME)

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propeny1)amino]-, monosodium salt, polymer with lithium 2-propenoate (9CI)
- L3 ANSWER 21 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 143457-58-3 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monopotassium salt (9CI) (CA INDEX NAME)
- L3 ANSWER 22 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 137134-19-1 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-

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1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, butyl ester, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, monoester with 1,2-propanediol, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 1,2-propanediol mono-2-propenoate (9CI)
- CN Benzene, ethenyl-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- L3 ANSWER 23 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 133245-68-8 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with $\alpha-[[4-[(2,2,3,3,4,4,4-\text{heptafluoro-}1-\text{oxobutyl})\,\text{amino}]-3-\\ \text{hydroxyphenyl}]\,\text{amino}]\,\text{carbonyl}]-\omega-[2-[(2-\text{methyl-}1-\text{oxo-}2-\\ \text{propenyl})\,\text{amino}]\,\text{ethoxy}]\,\text{poly}[\text{oxy}(\text{methyl-}1,2-\text{ethanediyl})] \text{ and } 3-[(1-\text{oxo-}2-\text{propenyl})\,\text{amino}]-1-\text{propanesulfonic acid monosodium salt (9CI)}$ (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with α -[[[4-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-3-hydroxyphenyl]amino]carbonyl]- ω -[2-[(2-methyl-1-oxo-2-propenyl)amino]ethoxy]poly[oxy(methyl-1,2-ethanediyl)] and oxiranylmethyl 2-methyl-2-propenoate (9CI)
- CN Poly[oxy(methyl-1,2-ethanediyl)], $\alpha-[[[4-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-3-hydroxyphenyl]amino]carbonyl]-<math>\omega-[2-[(2-methyl-1-oxo-2-propenyl)amino]ethoxy]-$, polymer with oxiranylmethyl 2-methyl-2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt (9CI)
- L3 ANSWER 24 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 133245-67-7 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with α -[[4-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-3-hydroxyphenyl]amino]carbonyl]- ω -[2-[(2-methyl-1-oxo-2-propenyl)amino]ethoxy]poly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly[oxy(methyl-1,2-ethanediyl)], α -[[[4-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-3-hydroxyphenyl]amino]carbonyl]- ω -[2-[(2-methyl-1-oxo-2-propenyl)amino]ethoxy]-, polymer with 3-[(1-oxo-2-propenyl)amino]-1-

propanesulfonic acid monosodium salt (9CI)

- L3 ANSWER 25 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 127584-40-1 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with N-[4-[[[6-methoxy-2-[2-[(methylsulfonyl)amino]ethyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]thio]methyl]phenyl]-2-propenamide and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with N-[4-[[[6-methoxy-2-[2-[(methylsulfonyl)amino]ethyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]thio]methyl]phenyl]-2-propenamide and oxiranylmethyl 2-methyl-2-propenoate (9CI)
- CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 2-propenamide deriv.
- CN 2-Propenamide, N-[4-[[[6-methoxy-2-[2-[(methylsulfonyl)amino]ethyl]]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]thio]methyl]phenyl]-, polymer with oxiranylmethyl 2-methyl-2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt (9CI)
- L3 ANSWER 26 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 124882-87-7 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, nickel(2+) salt (2:1) (9CI) (CA INDEX NAME)
- L3 ANSWER 27 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 120641-64-7 REGISTRY
- CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with N,N'-methylenebis[2-propenamide], 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-propenamide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with N,N'-methylenebis[2-propenamide], 2-propenamide and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI)
- CN 2-Propenamide, N,N'-methylenebis-, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt, 2-propenamide and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI)
- CN 2-Propenamide, polymer with N,N'-methylenebis[2-propenamide], 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI)
- L3 ANSWER 28 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 120619-59-2 REGISTRY
- CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-propenamide (9CI) (CA INDEX NAME)

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 2-propenamide and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI)
- CN 2-Propenamide, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -

- L3 ANSWER 29 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 107719-47-1 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with ethenol, block (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

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- CN Ethenol, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, block (9CI)
- L3 ANSWER 30 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 104047-96-3 REGISTRY
- CN 1-Propanesulfonic acid, methyl-3-[(1-oxo-2-propenyl)amino]-, homopolymer (9CI) (CA INDEX NAME)
- L3 ANSWER 31 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 104047-95-2 REGISTRY
- CN 1-Propanesulfonic acid, methyl-3-[(1-oxo-2-propenyl)amino]- (9CI) (CA INDEX NAME)
- L3 ANSWER 32 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 103966-70-7 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-propenamide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with 1,1-dichloroethene, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-propenamide (9CI)
- CN 2-Propenamide, polymer with 1,1-dichloroethene, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt (9CI)
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dichloroethene, 2-hydroxyethyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-propenamide (9CI)
- CN Ethene, 1,1-dichloro-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate,
 methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1 propanesulfonic acid monosodium salt and 2-propenamide (9CI)
 OTHER NAMES:
- CN Acrylamide-2-hydroxyethylmethacrylate-methylmethacrylate-sodium acrylamidopropanesulfonate-vinylidene chloride copolymer
- L3 ANSWER 33 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 103915-90-8 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dichloroethene, 2-hydroxyethyl 2-propenoate, 2-methyl-2-propenamide, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI) (CA INDEX NAME)

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with 1,1-dichloroethene, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid (9CI)
- CN 2-Propenamide, 2-methyl-, polymer with 1,1-dichloroethene, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, polymer with 1,1-dichloroethene, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI)
- CN Ethene, 1,1-dichloro-, polymer with 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide, 3-{(1-oxo-2-propenyl)amino}-1-propanesulfonic acid and 2-propenoic acid (9CI)
 OTHER NAMES:
- CN Acrylamidopropanesulfonic acid-acrylic acid-2-hydroxyethylacrylate-methacrylamide-methylmethacrylate-vinylidene chloride copolymer
- L3 ANSWER 34 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 103831-43-2 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dichloroethene, 2-methyl-2-propenamide, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)
- OTHER CA INDEX NAMES:

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- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenamide, 2-methyl-, polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, monoester with 1,2-propanediol, polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 1,2-propanediol mono-2-propenoate (9CI)
- CN Ethene, 1,1-dichloro-, polymer with methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)

OTHER NAMES:

- CN Acrylic acid-hydroxypropylacrylate-methacrylamide-methyl methacrylate-sodium acrylamidopropanesulfonate-vinylidene chloride copolymer
- L3 ANSWER 35 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 103831-42-1 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dichloroethene, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenamide (9CI) (CA INDEX NAME)
- OTHER CA INDEX NAMES:
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt,

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polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenamide (9CI)
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- CN 2-Propenamide, polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 1,2-propanediol mono(2-methyl-2-propenoate) (9CI)
- CN 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol, polymer with 1,1-dichloroethene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-propenamide (9CI)
- CN Ethene, 1,1-dichloro-, polymer with methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenamide (9CI) OTHER NAMES:
- CN Acrylamide-hydroxypropyl methacrylate-methyl methacrylate-sodium acrylamidopropanesulfonate-vinylidene chloride copolymer
- L3 ANSWER 36 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 102304-26-7 REGISTRY
- CN 2-Propenamide, N-(3-aminopropyl)-, homopolymer (9CI) (CA INDEX NAME)
- L3 ANSWER 37 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 101647-77-2 REGISTRY
- CN 3-Butenoic acid, 2-oxo-, polymer with N-[4-[[[3-[[5-(acetylamino)-2-chlorophenyl]amino]-4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]phenyl]-2-methyl-2-propenamide and butyl 2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 2-Propenamide, N-[4-[[[3-[[5-(acetylamino)-2-chlorophenyl]amino]-4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]phenyl]-2-methyl-, polymer with butyl 2-propenoate and 2-oxo-3-butenoic acid (9CI)
- CN 2-Propenoic acid, butyl ester, polymer with N-[4-[[[3-[[5-(acetylamino)-2-chlorophenyl]amino]-4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]phenyl]-2-methyl-2-propenamide and 2-oxo-3-butenoic acid (9CI)
- L3 ANSWER 38 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 94644-13-0 REGISTRY
- CN 2-Propenoic acid, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with 2-propenoic acid (9CI)
- L3 ANSWER 39 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 87940-14-5 REGISTRY
- CN 1-Aziridinepropanoic acid, 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-ethyl-1,3-propanediyl ester, polymer with α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-ethyl-1,3-propanediyl bis(1-aziridinepropanoate) and α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI)
- CN Poly(oxy-1,2-ethanediyl), α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]-, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-ethyl-1,3-propanediyl

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bis (1-aziridine propanoate) and 3-[(1-\infty -2-propeny 1) amino]-1-propane sulfonic acid (9CI)
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- L3 ANSWER 40 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 87940-13-4 REGISTRY

- CN 2-Propenoic acid, 2-methyl-, 2-(1-aziridinyl)ethyl ester, polymer with α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with 2-(1-aziridinyl)ethyl 2-methyl-2-propenoate and α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)].(9CI)
- CN Poly(oxy-1,2-ethanediyl), α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]-, polymer with 2-(1-aziridinyl)ethyl 2-methyl-2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI)
- L3 ANSWER 41 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 82752-13-4 REGISTRY
- CN 2-Propenamide, N-(3-aminopropyl)-, monohydrochloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 2-Propenamide, polymer with N-(3-aminopropyl)-2-propenamide monohydrochloride (9CI)
- L3 ANSWER 42 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 82752-12-3 REGISTRY
- CN 2-Propenamide, N-(3-aminopropyl)-, monohydrochloride (9CI) (CA INDEX NAME)
- L3 ANSWER 43 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 81666-09-3 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 2-Propenamide, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI)
- L3 ANSWER 44 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 78166-46-8 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, homopolymer, sodium salt (9CI) (CA INDEX NAME)
- L3 ANSWER 45 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 78166-45-7 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, homopolymer (9CI) (CA INDEX NAME)
- L3 ANSWER 46 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 72805-87-9 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with butyl

- 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, monoester with 1,2-propanediol, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 1,2-propanediol mono-2-propenoate (9CI)
- CN Benzene, ethenyl-, polymer with butyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- L3 ANSWER 47 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 72805-85-7 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

 OTHER CA INDEX NAMES:
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with ethenylbenzene, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol
- mono-2-propenoate and 2-propenoic acid (9CI)

 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene,
 2-ethylhexyl 2-propenoate, octadecyl 2-methyl-2-propenoate,
 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol
 mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, monoester with 1,2-propanediol, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 1,2-propanediol mono-2-propenoate (9CI)
- CN Benzene, ethenyl-, polymer with 2-ethylhexyl 2-propenoate, methyl

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2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)

- L3 ANSWER 48 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- 72805-84-6 REGISTRY RN
- CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, butyl ester, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, monoester with 1,2-propanediol, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 1,2-propanediol mono-2-propenoate (9CI)
- Benzene, ethenyl-, polymer with butyl 2-methyl-2-propenoate, butyl CN 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- ANSWER 49 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN L3
- RN 72805-83-5 REGISTRY
- Butanedioic acid, methylene-, dibutyl ester, polymer with ethenylbenzene, CN 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

- 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with dibutyl methylenebutanedioate, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- 2-Propenoic acid, 2-ethylhexyl ester, polymer with dibutyl CN methylenebutanedioate, ethenylbenzene, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)

- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with dibutyl methylenebutanedioate, ethenylbenzene, 2-ethylhexyl 2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with dibutyl methylenebutanedioate, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, monoester with 1,2-propanediol, polymer with dibutyl methylenebutanedioate, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 2-propenoic acid (9CI)
- CN 2-Propenoic acid, polymer with dibutyl methylenebutanedioate, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and 1,2-propanediol mono-2-propenoate (9CI)
- CN Benzene, ethenyl-, polymer with dibutyl methylenebutanedioate, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI)
- L3 ANSWER 50 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 71297-38-6 REGISTRY
- CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,3-butadiene, ethenylbenzene and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1,3-Butadiene, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, ethenylbenzene and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CT)
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with 1,3-butadiene, 2-(dimethylamino)ethyl 2-methyl-2-propenoate and ethenylbenzene (9CI)
- CN Benzene, ethenyl-, polymer with 1,3-butadiene, 2-(dimethylamino)ethyl 2-methyl-2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI)
- L3 ANSWER 51 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 70502-44-2 REGISTRY
- CN Butanoic acid, 3-oxo-, 2-[(1-oxo-2-propenyl)oxy]ethyl ester, polymer with butyl 2-propenoate and 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt (9CI) (CA INDEX NAME)

- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with butyl 2-propenoate and 2-[(1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate (9CI)
- CN 2-Propenoic acid, butyl ester, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-[(1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate (9CI)
- L3 ANSWER 52 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 70502-43-1 REGISTRY
- CN 1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, monosodium salt (9CI) (CA INDEX NAME)
- L3 ANSWER 53 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 61228-52-2 REGISTRY

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CN
     1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with
     diethenylbenzene (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Benzene, diethenyl-, polymer with 3-[(1-oxo-2-propenyl)amino]-1-
     propanesulfonic acid (9CI)
OTHER NAMES:
    Acryloylaminopropanesulfonic acid-divinylbenzene copolymer
CN
     ANSWER 54 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
L3
     61181-27-9 REGISTRY
RN
     2-Propenoic acid, 2-methyl-, oxybis(2,1-ethanediyloxy-2,1-ethanediyl)
CN
     ester, polymer with 3-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid
     (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with
     oxybis(2,1-ethanediyloxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) (9CI)
OTHER NAMES:
     Acryloylaminopropanesulfonic acid-tetraethylene glycol dimethacrylate
CN
     copolymer
     ANSWER 55 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
L3
     56842-76-3 REGISTRY
RN
CN
     3-Butenoic acid, 2-oxo- (9CI) (CA INDEX NAME)
OTHER NAMES:
     2-keto-3-Butenoic acid
CN
     2-0xo-3-butenoic acid
CN
     ANSWER 56 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
L3
RN
     55216-59-6 REGISTRY
     1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]-, polymer with
CN
     2-propenenitrile (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     2-Propenenitrile, polymer with 3-[(1-oxo-2-propenyl)amino]-1-
     propanesulfonic acid (9CI)
OTHER NAMES:
CN
     Acrylonitrile-sulfopropylacrylamide polymer
     ANSWER 57 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
L3
RN
     55216-58-5 REGISTRY
     1-Propanesulfonic acid, 3-[(1-oxo-2-propenyl)amino]- (9CI) (CA INDEX
CN
     NAME)
     ANSWER 58 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
L3
     28081-27-8 REGISTRY
RN
CN
     3-Butenoic-4-14C acid, 2-oxo- (8CI) (CA INDEX NAME)
     ANSWER 59 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
L3
RN
     21381-80-6 REGISTRY
     Acrylamide, N-(3-aminopropyl)-, picrate (8CI) (CA INDEX NAME)
CN
     ANSWER 60 OF 60 REGISTRY COPYRIGHT 2004 ACS on STN
L3
     21381-79-3 REGISTRY
RN
     2-Propenamide, N-(3-aminopropyl)- (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
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Acrylamide, N-(3-aminopropyl)- (8CI)

CN

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FILE COVERS 1907 - 7 Dec 2004 VOL 141 ISS 24 FILE LAST UPDATED: 6 Dec 2004 (20041206/ED)

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60	SEA	FILE=REGISTRY SSS F	UL L1		
9692	SEA	FILE=CAPLUS ABB=ON	PLU=ON	ION EXCHANGE+PFT/CT	
0	SEA	FILE=CAPLUS ABB=ON	PLU=ON	L3 AND L4	
	STR				
60	SEA	FILE=REGISTRY SSS F	UL L1		
225192	SEA	FILE=CAPLUS ABB=ON	PLU=ON	(ION OR CATION OR ANION)	(W)
	EXC	HANGE?			
2	SEA	FILE=CAPLUS ABB=ON	PLU=ON	L3 AND L5	
	9692 0 60 225192	9692 SEA 0 SEA STR 60 SEA 225192 SEA EXCI	9692 SEA FILE=CAPLUS ABB=ON 0 SEA FILE=CAPLUS ABB=ON STR 60 SEA FILE=REGISTRY SSS F 225192 SEA FILE=CAPLUS ABB=ON EXCHANGE?	O SEA FILE=CAPLUS ABB=ON PLU=ON STR 60 SEA FILE=REGISTRY SSS FUL L1 225192 SEA FILE=CAPLUS ABB=ON PLU=ON EXCHANGE?	9692 SEA FILE=CAPLUS ABB=ON PLU=ON ION EXCHANGE+PFT/CT 0 SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND L4 STR 60 SEA FILE=REGISTRY SSS FUL L1 225192 SEA FILE=CAPLUS ABB=ON PLU=ON (ION OR CATION OR ANION) EXCHANGE?

=> d ibib ed ab 17 1-2

L1

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:78705 CAPLUS

DOCUMENT NUMBER: 130:156929

TITLE: Corrosion prevention method of metals in water system

INVENTOR(S):

Otaka, Hideo; Fujita, Kazuhisa Kurita Water Industries, Ltd., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 5 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11029885	A2	19990202	JP 1997-185024	19970710
PRIORITY APPLN. INFO.:			JP 1997-185024	19970710
ED Entered STN: 05 Fe	b 1999			

AΒ The title method consists of (A) removal of corrosive ions from water for the system by using anion exchangers, (B) addition of ≥ 0.5 mg/L (as PO4) P compds. to the water, and optionally (C) addition of polymers for suppressing formation of P scales. The method prevents metal corrosion in water system by using only small amount of P compds.

ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1975:172439 CAPLUS

DOCUMENT NUMBER:

82:172439

TITLE:

Ion-exchangeable acrylonitrile

polymers

INVENTOR(S):

Tanaka, Hiroyoshi; Ninakuchi, Hideharu; Fujii, Shigeru

PATENT ASSIGNEE(S): Toray Industries, Inc.

1

SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

AB

=>

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50000093	A2	19750106	JP 1973-49521	19730428
PRIORITY APPLN. INFO.:			JP 1973-49521	19730428

Entered STN: 12 May 1984 ED

Acrylonitrile (>75 mole%) and >3 mole% sulfoalkylacrylamides, sulfoalkylmethacrylamides, and(or) their salts were solution-polymerized in Me2SO. Thus, acrylonitrile containing 4 mole% sulfopropylacrylamide was solution-polymerized for 24 hr at 50° and 23% monomer concentration in Me2SO containing 0.004 mole/kg azobisisobutyronitrile to give 91.3% polymer [55216-59-6] solution (432 P viscosity at 45°), which was extruded at 25° in a 15% aqueous Me2SO solution and stretched 400% in H2O at 100° to give fibers with 20.3 mg/g Fe+3 adsorption, as compared with 19.3 mg/g for Amberlite IR-120B.

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PASSWORD:

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=> s polyacrylamide or dimethylacrylamide
        369119 POLYACRYLAMIDE OR DIMETHYLACRYLAMIDE
=> 1 and modified or functionalized or (functional (1w) group)
        515735 1 AND MODIFIED OR FUNCTIONALIZED OR (FUNCTIONAL (1W) GROUP)
=> 2 and (anion or anionic or cation or cationic)
        493076 2 AND (ANION OR ANIONIC OR CATION OR CATIONIC)
=> 1 and (modified or functionalized or (functional (1w) group))
        444618 1 AND (MODIFIED OR FUNCTIONALIZED OR (FUNCTIONAL (1W) GROUP))
=> L1 and (modified or functionalized or (functional (1w) group))
         13133 L1 AND (MODIFIED OR FUNCTIONALIZED OR (FUNCTIONAL (1W) GROUP))
=> 5 and (anion or anionic or cation or cationic)
        321260 5 AND (ANION OR ANIONIC OR CATION OR CATIONIC)
=> L5 and (anion or anionic or cation or cationic)
           935 L5 AND (ANION OR ANIONIC OR CATION OR CATIONIC)
=> L7 and ((anion or anionic or cation or cationic) (w) (modified or
functionalized or (functional (1w) group)))
            55 L7 AND ((ANION OR ANIONIC OR CATION OR CATIONIC) (W) (MODIFIED
               OR FUNCTIONALIZED OR (FUNCTIONAL (1W) GROUP)))
=> (ion (1w) exchange) or (ion-exchange)
        225635 (ION (1W) EXCHANGE) OR (ION-EXCHANGE)
=> L9 and ((anion or anionic or cation or cationic) (w) (modified or
functionalized or (functional (lw) group)))
            24 L9 AND ((ANION OR ANIONIC OR CATION OR CATIONIC) (W) (MODIFIED
               OR FUNCTIONALIZED OR (FUNCTIONAL (1W) GROUP)))
=> d ibib abs 1-24
L10 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         2004:995243 CAPLUS
TITLE:
                         Method for introducing ion exchange
                         functional group
INVENTOR(S):
                         Kang, Dal Seon; Lee, Ho Jae; Song, Hae Yeong; Woo,
                         Yeong Guk
PATENT ASSIGNEE(S):
                         Joong Ang University, S. Korea
SOURCE:
                         Repub. Korean Kongkae Taeho Kongbo, No pp. given
                         CODEN: KRXXA7
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Korean
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2003072652	Α	20030919	KR 2002-11779	20020306
PRIORITY APPLN. INFO.:			KR 2002-11779	20020306

AB PURPOSE: Provided is a method for producing anion exchange column or cation exchange column by directly introducing a suitable silane compound having anionic or cationic functional group into com. available various purified silica. CONSTITUTION: The method comprises directly bonding at least one silane compound selected from the group consisting of N-trimethoxypropyl-N,N,N-trimethylammonium chloride, N-(trimethoxysilyl ethyl)benzyl-N,N,N-trimethylammonium chloride, octadecyldimethyl(3-trimethoxysilyl propyl)ammonium chloride, and N,N-didecyl-N-methyl-N-methyl-N-(3-trimethoxysilyl propyl)ammonium chloride which have anion exchange functional group, to a purified silica gel, so as to form a filler for anion chromatog.

L10 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:740385 CAPLUS

DOCUMENT NUMBER:

141:261449

TITLE:

Lamellar organosilica nanocomposite and production

process

INVENTOR (S):

Imai, Yusuke; Yao, Jian; Koga, Toshiaki; Inukai,

Yoshinari; Abe, Eiichi; Tateyama, Hiroshi

PATENT ASSIGNEE(S):

National Institute of Advanced Industrial Science and

Technology, Japan

SOURCE:

PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	ENT :	NO.			KIN	o :	DATE		i	APPL	ICAT	ION 1	ŃΟ.		D	ATE	
WO	2004	0765:	32		A1	_	2004	0910	,	WO 2	 004-,	 JP24:	15		2	0040	 227
	W:	ΑE,	ΑE,	AG,	AL,	AL,	AM,	AM,	AM,	ΑT,	AT,	AU,	AZ,	AZ,	BA,	BB,	BG,
					BW,												
		CU,	CU,	CZ,	CZ,	DΕ,	DE,	DK,	DK,	DM,	DZ,	EC,	EC,	EE,	EE,	EG,	ES,
		ES,	FI,	FI,	GB,	GD,	ĢΕ,	GE,	GH,	GM,	HR,	HR,	HU,	HU,	ID,	IL,	IN,
•		IS,	ΚE,	KE,	KG,	KG,	KP,	ΚP,	ΚP,	KR,	KR,	ΚZ,	ΚZ,	ΚZ,	LC,	LK,	LR,
		LS,	LS,	LT,	LU,	LV,	MA,	MD,	MD,	MG,	MK,	MN,	MW,	MX,	MX,	MZ,	MZ,
		NA,	NI,	NI,	NO												
	RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,
		₿G,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,
		MC,	ΝL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG								
JP	2004	26306	56		A2		2004	0924		JP 2	003-!	5452	8		20	0030	228
PRIORITY	APP:	LN.	INFO	. :						JP 2	003-	54528	3	1	A 20	0030	228

AB An aqueous solution containing an alkoxysilane having an organic cationic functional group (e.g., 3-aminopropyltrimethoxysilane) and an anionic surfactant (e.g., Na dodecylsulfate) is subjected to a sol-gel reaction for alkoxysilane. Thus, a lamellar organosilica nanocomposite can be produced.

REFERENCE COUNT:

THERE ARE 19 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:421947 CAPLUS

DOCUMENT NUMBER:

141:145277

TITLE:

Removal of polar natural organic matter (NOM) with a

magnetically impregnated ion

exchange (MIEX) media

AUTHOR (S):

Lee, NoHwa; Sinha, Shahnawaz; Amy, Gary; Bourke,

Michael

CORPORATE SOURCE:

University of Colorado at Boulder, USA

SOURCE:

Proceedings - Annual Conference, American Water Works

Association (2003) 865-875

CODEN: PWACDO; ISSN: 0360-814X American Water Works Association Journal; (computer optical disk)

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

English

Natural organic matter (NOM) forms undesirable disinfection byproducts (DBPs). Since EPA promulgated the Stage 1 disinfection byproducts rule (Stage 1 DBPR) in 1998, the removal of NOM, as a DBP precursor, was regulated by enhanced coagulation. The MIEX DOC resin target the removal of anionic constituents of NOM by exchanging the sites between anionic functional groups (e.g., carboxylic
acids) and chloride ion (Cl-). This research has focused on

characterization of MIEX adsorption of NOM isolates and bulk NOM from natural waters. An enhanced coagulation matrix (source waters with varying TOC and alkalinity) was used as a framework for identifying and selecting natural waters from around the U.S. In all cases, based on XAD 8/4 resin fractionation of raw and MIEX treated waters, effective

removals

of hydrophobic, transphilic, and hydrophilic NOM acids were observed The removals of transphilic and hydrophilic (low mol. weight) acids are noteworthy, given the ineffectiveness of coagulation in removing these polar NOM fractions.

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:820823 CAPLUS

DOCUMENT NUMBER:

140:344792

TITLE:

Azulene incorporation and release by hydrogel

containing methacrylamide propyltrimenthylammonium chloride, and its application to soft contact lens Uchida, Rei; Sato, Takao; Tanigawa, Haruyasu; Uno,

CORPORATE SOURCE:

Research and Development Department, SEED Co., Ltd.,

Saitama, Okegawa, 363-0001, Japan

SOURCE:

Journal of Controlled Release (2003), 92(3), 259-264

CODEN: JCREEC; ISSN: 0168-3659

PUBLISHER:

AUTHOR (S):

Elsevier Journal

DOCUMENT TYPE: LANGUAGE:

English

We have developed the epoch-making contact lens that is equipped with ABdrug

delivery system. The hydrogels contain cationic functional group in its side chain were prepared with 2-hydroxyethyl methacrylate (HEMA) and methacrylamide propyltrimethylammonium chloride (MAPTAC). The obtained hydrogel is

capable to store the anionic drug such as azulene based on ion-

exchange reaction. The incorporated anionic drug would be

released in physiol. condition. The size change of the hydrogel may

before and after drug release, but we have discovered that the addition of

anionic monomer such as methacrylic acid (MAA) and 2-methacryloxyethyl acid phosphate (MOEP) to the above-mentioned composition is effective to prevent the size change, indicating that this hydrogel has the possibility

to be applied as a significant drug delivery system device.

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:588682 CAPLUS

DOCUMENT NUMBER:

139:344804

TITLE:

Ion exclusion chromatography. Retention mechanism and

practical applications

AUTHOR(S):

Glod, Bronislaw K.

CORPORATE SOURCE:

Inst.-Centrum Med. Dosw. i Klin., PAN, Warsaw,

02-106,

Pol.

SOURCE:

Wiadomosci Chemiczne (2003), 57(1-2), 115-133

CODEN: WICHAP; ISSN: 0043-5104

PUBLISHER:

Wydawnictwo Uniwersytetu Wroclawskiego Sp. z o.o.

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

Polish

AB A review. Ion exclusion chromatog. (IEC) is applied mostly to sep. ionic compds. from the nonionic ones. Wheaton and Bauman were 1st to describe this technique in 1953. At present .apprx.10% of all ion chromatog. detns. were performed using IEC and this is approx. the number of detns. using the more common technique of ion pair (ion interaction) chromatog. In the recent years the number of IEC detns. displays a strong tendency to

increase. The characteristic feature of IEC technique is the elec. charge

sign of dissociated ion-exchange resin functional groups

that is the same as the elec. charge sign of the analyzed ionic compound Thus samples of neg. charged ions e.g. dissociated acidic compds. are separated

on cation exchange resins with anionic functional

groups. Usually these are sulfonic acid groups. Similarly,

samples containing pos. charged species (bases) are separated on the anion $\ensuremath{\mathsf{S}}$

exchange resin containing cationic functional

groups. Usually these are tetraalkylammonium groups. In a sense these rules are in contrast to those of ion exchange

chromatog., where anions are separated on anion exchange resins and $\operatorname{cations}$

are separated on cation exchange resins. However, the same columns can be

used in both techniques. For the specific requirements of ion exclusion chromatog. large ion exchange capacity is

preferential. Along with these, to increase the capacity, the column dimensions and the functional group concentration in the support are maximized.

The usual supports are based on the macro-porous styrene and divinylbenzene copolymer. IEC finds application in the separation of a wide

range of small, neutral or partially ionized mols. In IEC the strong as well as weak electrolytes are eluted unsepd., the 1st at the beginning and

the latter at the end of the elution. The retention vols. of the remaining electrolytes are proportional to their dissociation constant values.

The dead and inner vols. of the chromatog. column can be determined from the

observed dependence of retention vols. onto dissociation constant values. The $\,$

retention mechanism is described by the anal. equations and on the results

obtained from the computer simulation of the column performance (using global thermodn. and chromatog. equations or the Craig method). The mixed

retention mechanism involving hydrophobic adsorption, $\pi\text{-electron}$ interactions and screening effect is observed for weak electrolytes and aromatic

compds. Aromatic compds. are retained almost solely involving interaction of

the solute with the unfunctionalized regions of the stationary phase. The

purpose of this paper is to survey the field. The retention mechanism of analyzed compds. in ion-exclusion chromatog. was described. The influence

of some physicochem. parameters describing the sample, the chromatog. column and the mobile phase on the retention is discussed. Finally, practical applications are briefly presented.

L10 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:568766 CAPLUS

DOCUMENT NUMBER:

139:127023

TITLE:

Ion-gate-type ion exchangers for liquid

chromatographic columns, and liquid chromatography

INVENTOR(S):

Furutsuki, Fumiji

PATENT ASSIGNEE(S): SOURCE:

Shimazu Corporation, Japan Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
JP 2003207493	A2	20030725	JP 2002-4914	20020111
PRIORITY APPLN. INFO.:			JP 2002-4914	20020111

AB The ion exchanger has a hydrocarbyl framework and both a cationic- and anionic functional group, and the ionic

dissociation degree, i.e., ion-exchange capacity, of both

functional groups depends on the pH and/or composition of a surrounding liquid

Also claimed is a liquid chromatog. column employing the ion exchanger as a

stationary phase. Thus, \mbox{HPLC} separation of various anions was carried out by

using RN+(CH3)2(CH2)nCO2- as the ion exchanger.

L10 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:542869 CAPLUS

DOCUMENT NUMBER:

139:154444

TITLE:

Evaluation of magnetic ion exchange

resin treatment for preferential removal of NOM

fractions

AUTHOR(S):

Lee, NoHwa; Sinha, Shahnawaz; Amy, Gary; Bourke,

Michael

CORPORATE SOURCE:

Civil & Environmental Engineering, University of

Colorado at Boulder, Boulder, CO, 80309, USA

SOURCE:

Proceedings - Water Quality Technology Conference (2002) 363-372

CODEN: PWQCD2; ISSN: 0164-0755 American Water Works Association PUBLISHER: DOCUMENT TYPE: Journal; (computer optical disk)

LANGUAGE:

English

Natural organic matter (NOM) has been known to form undesirable disinfection

byproducts (DBPs). Since EPA promulgated the Stage 1 disinfection byproducts rule (Stage 1 DBPR) in 1998, the removal of NOM, as a DBP precursor, has been regulated by enhanced coagulation. The MIEX DOC

target the removal of anionic constituents of NOM by exchanging the sites between anionic functional groups (e.g., carboxylic acids) and chloride ion (Cl-). This research has focused on characterization of MIEX adsorption of NOM isolates and bulk NOM from natural waters. An enhanced coagulation matrix (source waters with varying TOC and alkalinity) was used as a framework for identifying and selecting natural waters from around the U.S. In all cases, based on XAD 8/4 resin fractionation of raw and MIEX treated waters, effective removals

of hydrophobic, transphilic, and hydrophilic NOM acids were observed The removals of transphilic and hydrophilic (low mol. weight) acids are noteworthy, given the ineffectiveness of coaqulation in removing these polar NOM fractions.

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:313268 CAPLUS

DOCUMENT NUMBER:

131:60676

TITLE:

Some characteristics of clinoptilolite- and

phillipsite-type zeolite molecular sieves

AUTHOR (S):

Dolaberidze, N. M.; Tsitsishvili, V. G.; Tsiklauri,

z.

CORPORATE SOURCE:

Inst. Fiz. Org. Khim. im. P.G. Melikishvili, AN

Gruzii, Georgia

SOURCE:

Izvestiya Akademii Nauk Gruzii, Seriya Khimicheskaya

(1998), 24(1-4), 68-72

CODEN: IANKEJ

PUBLISHER:

Metsniereba Journal

DOCUMENT TYPE: LANGUAGE:

Russian

Cation-modified forms of natural clinoptilolite and phillipsite are obtained by ion exchange mechanism.

Adsorption capacity, water desorption, and stability of cationmodified forms is dependent on structure type and nature of heavy cations which are located in the anionic crystal framework. The adsorption capacity and ion exchange ability of

studied forms are satisfactory.

L10 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:978079 CAPLUS

DOCUMENT NUMBER:

124:11211

TITLE:

Ion exchange activity and

adsorption capacity of cellulose and modified

cellulose

AUTHOR (S):

Padiha, Pedro M.; Campos, Joaquim T. S.; Moreira,

Jose

C.; Federici, Cilene C.

CORPORATE SOURCE:

Instituto Biociencias, UNESP, Botucatu, 18618-000,

Brazil

SOURCE:

Quimica Nova (1995), 18(6), 529-33 CODEN: QUNODK; ISSN: 0100-4042 Sociedade Brasileira de Quimica

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE:

Portuguese

Cellulose and chemical modified cellulose (CM-cellulose, cellulose phosphate,

and oxy-cellulose) were evaluated for adsorption of copper(II) cations in aqueous and non-aqueous perchlorate solns. The amount of adsorbed Cu was determined by

AAS [atomic absorption spectroscopy] after separation from the adsorbent. The sp.

surface area of the adsorbents was determined using the BET

[Brunauer-Emmett-Teller (isotherm equation)] method. The number of carboxyl

groups in CMC was determined by conductimetric titration and the number of phosphate

groups was determined by spectrophotometry with Mo blue indicator. Maximum

adsorption capacity was 0.54.10-5 mol/g cellulose; 1.28.10-4 mol/g CMC; 1.12.10-4 mol/g cellulose phosphate; and 0.38.10-4 mol/g oxy-cellulose. The adsorbents can be used for removal of metals, e.g., heavy metals from wastewaters and sludges, fuel products, etc.

L10 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:687218 CAPLUS

DOCUMENT NUMBER:

121:287218

TITLE:

Molecular-Scale Structure of the Cation Modified Muscovite Mica Basal Plane

AUTHOR(S):

Nishimura, S.; Biggs, S.; Scales, P. J.; Healy, T.

W.;

AB

Tsunematsu, K.; Tateyama, T.

CORPORATE SOURCE:

School of Chemistry, University of Melbourne,

Parkville, 3052, Australia

SOURCE:

Langmuir (1994), 10(12), 4554-9 CODEN: LANGD5; ISSN: 0743-7463

DOCUMENT TYPE:

Journal English

LANGUAGE:

The muscovite mica basal plane surface was studied directly with atomic force

microscopy (AFM), zeta potential, and contact angle measurements after H+,

Li+, K+, and Mg2+ ion exchange followed by heating at 300°. Typical AFM images of the H- and K-mica showed an ideal array of light spots corresponding to 1-5 O ions on the surface crystallog. layer of the muscovite mica. No spots were observed in the cavity surrounded by the light spots. In particular, the ideal image of H-mica, which should correspond to a bare basal plane where no interlayer cation exists, indicated that the calcination did not damage the mica basal plane. In the images of the Li- and Mg-micas, a significant irregular array of the light spots corresponding to the O ions and small spots in the hexagonal cavity of the mica basal plane can be observed Furthermore, the zeta potential of the H- and K-mica basal planes showed identical values to the freshly cleaved mica basal plane, while the zeta potential of Li- and Mg-mica basal planes were much lower in magnitude than freshly cleaved mica. These results substantiate that Li+ and Mg2+ ions were fixed irreversibly in the hexagonal cavity on the mica basal plane, resulting in neutralization of neg. charge on the mica basal

plane.

However, the K+ ions can not be fixed in the hexagonal cavity. Such a cation-fixation process reflects the relative size of dehydrated cations and the size of the characteristic hexagonal cavity in the mica basal plane.

L10 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1990:100557 CAPLUS

DOCUMENT NUMBER:

112:100557

TITLE:

Mechanism of cationic dyeing of an anionmodified polyester with benzyl alcohol as a

carrier

AUTHOR(S):

Yao, Hong; Dong, Lifen; Chen, Yangsan

CORPORATE SOURCE:

Res. Inst. Fine Chem., East China Inst. Chem.

Technol., Shanghai, Peop. Rep. China

SOURCE:

Huadong Huagong Xueyuan Xuebao (1989), 15(1), 56-62

CODEN: HHKPDM; ISSN: 0253-9683

DOCUMENT TYPE:

Journal Chinese

LANGUAGE:

Dyeing of anion-modified polyester fibers with C.I.

Basic Blue 5 in aqueous benzyl alc. (I) was studied. Sorption isotherms indicated that dye cations combined with anions within the fiber through ion exchange. The dyeing process was an exothermic

reaction with a decrease of entropy. The presence of I in the dyeing bath

increased the saturation value and the rate of dyeing while decreasing the

affinity, heat, and entropy change of dyeing, leading to the elimination of ring-dyeing. I penetrated into the polyester and reduced the intermol.

interaction in its amorphous region without any impairment of its crystalline

region. Meanwhile, the fiber became swollen and the segmental mobility was further increased, which promoted the process of dyeing.

L10 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1987:35221 CAPLUS

DOCUMENT NUMBER:

106:35221

TITLE:

Oxygen-selective adsorbents

INVENTOR(S):

Ichida, Taizo; Minagawa, Isamu; Ora, Hiroyuki;

Tsumura, Masanori

PATENT ASSIGNEE(S):

Taiyo Sanso Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61212327	A2	19860920	JP 1985-52122	19850314
PRIORITY APPLN. INFO.:			JP 1985-52122	19850314

The O-selective adsorbents are cation modified

zeolites and are manufactured by ion-exchanging a part of alkali or alkaline-earth

metal ions in A zeolites, granulating, vacuum-drying, and sintering in O-containing atmospheric Such ion-exchanging metal ions are ≥1 of Mn, Cr, Cu,

Ni, and Co cations. Thus, 100 q A-zeolite powder was ion-exchanged of K+,

Ca++, or Mg++ with Na+ in an aqueous NaCl- solution, suspended in 500 mL water at

pH 8.0, mixed by dropwise addition of 0.36 g MnCl2.4H2O in 3.2 g water, stirred 1 h, filtered, and dried 5 h at 100°. By the ion-exchanging, the Mn content in the zeolite increased from 0.001 to

0.085 weight%. Then, 85 g (above prepared) ion-exchanged zeolite and 85 g 20

weight% SiO2 aqueous suspension were mixed, kneaded, molded into cylindrical

pieces (diameter 5 mm, length 3 mm), dried 1 h at 450° and 1 torr, and sintered 2 h at 550° in air. An acidic gas (400 mL/min at 4.0 $\,$

kg/cm2) containing O 20, He 75, and HCl 5 volume% was passed through a column

containing 83 g above sintered zeolite at 20°. The initial O concentration in

the discharged gas from the column was 0.5 volume%. The O-adsorbed zeolite

was regenerated by heating at 200° and 1 torr. After 100 cycles of such O adsorption-desorption, the adsorbability was not changed.

L10 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1986:549073 CAPLUS

DOCUMENT NUMBER:

105:149073

TITLE:

Protein purification on a new preparative ion

exchanger

AUTHOR (S):

Strickler, M. Patricia; Gemski, M. Jude

CORPORATE SOURCE:

Life Sci. Appl. Lab., Millipore Corp., Rockville, MD,

20852, USA

SOURCE:

Journal of Liquid Chromatography (1986), 9(8),

1655-77

CODEN: JLCHD8; ISSN: 0148-3919

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The ACCELL chromatog. media is a new packing designed specifically for AB the

isolation and purification of proteins. The anionic and cationic functional groups are bonded to an encapsulated 40 μ silica particle which can be readily packed into any size column.

columns can be operated on both high-performance and medium-performance liquid chromatog. equipment. The optimization of the separation

conditions on

the anion-exchange media for the preparative purification of a monoclonal antibody from ascites is discussed as well as a multistep purification of prostatic acid phosphatase from seminal fluid on the anion and cation exchangers.

L10 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1985:408492 CAPLUS

DOCUMENT NUMBER: 103:8492

TITLE: Binder for molecular sieves

INVENTOR(S): Mahrwald, Richard; Zehmisch, Frank; Bettke, Wolfram

PATENT ASSIGNEE(S): Karl-Marx-Universitaet Leipzig, Ger. Dem. Rep.

SOURCE: Ger. (East), 7 pp.

CODEN: GEXXA8

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 215997	A1	19841128	DD 1983-252149	19830620
PRIORITY APPLN. INFO.:			DD 1983-252149	19830620

AB Cation-modified bentonite, montmorillonite, or other

clay minerals are used as binders for pressed and granulated zeolite mol. sieves. The binder ensures unhindered diffusion of gas mols. to and from the zeolite active centers. The separation factor of C3H8-C3H6 mixts. is greatly improved by using **cation-modified** clay

minerals as binders. Best results were attained by modifying the clay minerals via ion exchange in NaCl or MgCl2 solns.

L10 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1977:440920 CAPLUS

DOCUMENT NUMBER: 87:40920

TITLE: Grafted anionic fibrous webs

AUTHOR(S): Brickman, W. James

CORPORATE SOURCE: Res. Div., Scott Pap. Co., Philadelphia, PA, USA

SOURCE: Tappi (1977), 60(6), 99-102

CODEN: TAPPAP; ISSN: 0039-8241

DOCUMENT TYPE: Journal LANGUAGE: English

AB Cotton grafted with methacrylic acid [79-41-4] and ethylene glycol dimethacrylate [97-90-5] at 57.3% add-on exhibited H2O retention of 9.7g/1g fiber whereas tumble-dried methacrylate-cotton graft copolymer

NH4

salts at 19.2-56.0% add-on had wet pick-up between -2% and 160%. Grafting

of anionic functional groups on cotton and

Nylon, enhanced hydrophilicity, ion exchange capacity,

and chemical accessibility while fundamental substrate fiber properties were

retained.

L10 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1976:598877 CAPLUS

DOCUMENT NUMBER:

85:198877

TITLE:

Ion-exchange-resin-supported
platinum cluster anion catalysts

INVENTOR(S):

Ichikawa, Masaru

PATENT ASSIGNEE(S):

Sagami Chemical Research Center, Japan

SOURCE:

LANGUAGE:

Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51095992	A2	19760823	JP 1975-16340	19750210
JP 57044377	B4	19820921		
PRIORITY APPLN. INFO.:			JP 1975-16340	19750210

AB Polymeric catalytic support having cationic functional groups and Pt carbonylanion complexes are ionexchange treated in an appropriate solvent to give Pt cluster-anion type catalyst supported by the polymeric support. The method is very simple, and the Pt cluster anion catalyst can be readily converted to a Pt cluster catalyst by heat-treatment, mild oxidation, reduction,

olefin treatment, light irradiation, etc. The catalysts are useful for hydrogenation of olefins and aromatic compds., oxidation of CO, and isomerization of paraffins. Thus, chloroplatinic acid 1g was dissolved

MeOH solution (100 ml) containing 1.0 g NaOH. The solution was stirred under CO

atmospheric, the solution was dried, and the residue was extracted with THF to give a

solution containing Na2[Pt3(CO)6]5. The solution was diluted with THF, then Amberlite

CWX (polystyrene having 1 mequiv quaternary ammonium group/g) 20 g was added to the solution, the solution was stirred 1 hr to give a cluster

catalyst supported by the ion exchanger resin (Pt 0.9 weight % with respect

to the resin). The catalyst was heat-treated 2 hr at 120° (at 10-4 torr) and used for hydrogenation of ethylene: the conversion yield was 98% when the reaction was carried out at 20° and at H2 and C2H4 partial pressures of 100 and 100 torr, resp.

CAPLUS COPYRIGHT 2004 ACS on STN L10 ANSWER 17 OF 24

ACCESSION NUMBER:

1976:46784 CAPLUS

DOCUMENT NUMBER:

84:46784

TITLE:

Quantitative ion exchange process

for clay

PATENT ASSIGNEE(S):

Yissum Research Development Co. of the Hebrew

University of Jerusalem, Israel

SOURCE:

in

Israeli, 35 pp.

DOCUMENT TYPE:

CODEN: ISXXAQ

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IL 38356	A1	19750831	IL 1971-38356	19711214
US 3725528	A	19730403	US 1971-116640	19710218
ZA 7108321	Α	19720927	ZA 1971-8321	19711213
CA 968912	A1	19750610	CA 1972-132692	19720118
AU 7238097	A1	19730726	AU 1972-38097	19720120
ES 399286	A1	19750601	ES 1972-399286	19720128
IT 948451	Α	19730530	IT 1972-48162	19720205
GB 1383376	Α	19750212	GB 1972-5985	19720209
BE 779341	A1	19720530	BE 1972-113944	19720214
FR 2127022	A5	19721013	FR 1972-5216	19720216

FR 2127022	B1	19751024			
CH 551480	Α	19740715	CH 1972-2195		19720216
NL 7202141	Α	19720822	NL 1972-2141		19720218
PRIORITY APPLN. INFO.:			US 1971-116640	Α	19710218

Acid-free H clays are prepared and are transformed into a salt-free, acid-free cationic form by first treating the clay with an acid and then with an anion exchange resin in the hydroxide state to prepare the acid-free

H clay. Then the suspension of H clay is mixed with an equivalent amount of a

salt in the presence of an anion exchange resin in the hydroxide state to prepare the salt-free, acid-free cationic modified clay.

Thus, a crude montmorillonite containing 35 and 47 mequiv./100g, resp., of

exchangeable Na+ and (Ca2+ + Mg2+) and 25 mequiv. soluble salts/100g was converted to the H form by repeated treatment with 0.5N HCl. A 1.2 weight%

H-clay suspension was prepared by adding the above clay to deionized water.

The H+ concentration in the solution was 25 mequiv./l. The suspension was treated

with enough of an anion exchange resin having quaternary ammonium active groups in the hydroxide form to give a H+:OH- ratio of 1:1.5. After stirring LiCl was added in an amount equivalent to the cation-exchange capacity

of the H clay and the final product contained 80 mequiv. Li+/100g clay. The elec. conductivity of an aqueous suspension at 25° was 33.4µmhr/cm, the

pH of a fresh suspension was 7.4 which changed to 5.9 after 15 days.

L10 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1974:122073 CAPLUS

DOCUMENT NUMBER:

80:122073

TITLE:

Ion exchange membrane having an

excellent relative-selective permeability between

ions

of same sign

INVENTOR(S):

Mihara, Kazuhiko; Misumi, Teruyuki; Miyauchi, Kohji

PATENT ASSIGNEE(S):

Asahi Chemical Industry Co., Ltd.

SOURCE:

Jpn. Tokkyo Koho, 20 pp. CODEN: JAXXAD

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48034676	B4	19731023	JP 1967-84472	19671229
PRIORITY APPLN. INFO.:			JP 1967-84472	19671229

AB Ion exchanging membranes were prepared by forming a thin layer of a linear

polymer containing crosslinking cationic functional groups, e.g. carboxylic or phosphoric acid groups, or anionic functional groups, e.g. ammonium, phosphonium or sulfonium groups on a membrane substrate.

L10 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1973:20061 CAPLUS

DOCUMENT NUMBER:

78:20061

TITLE:

CMMB. Cation modified mixed bed.

Efficient low cost two tank demineralization system

AUTHOR(S):

Crits, G. J.

CORPORATE SOURCE:

Cochrane Div., Crane Co., King of Prussia, PA, USA

SOURCE:

Ion Exchange and Membranes (1972), 1(1), 57-62

CODEN: IEXMBW; ISSN: 0091-0619

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The demineralization of water with very low leakages was accomplished by various fixed bed ion exchange techniques such as countercurrent regeneration, continuous ion exchange, multibeds, mixed beds, etc. The CMMB-two tank demineralization system offers high-purity effluent along with low regenerant dosages and high efficiencies without special or complicated procedures or devices. The regeneration procedure lends itself to producing low total regeneration wastes, final rinse vols., and short regeneration time.

L10 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1972:406792 CAPLUS

DOCUMENT NUMBER:

77:6792

TITLE:

the

Electrodialysis ion exchange

membrane which can pass cations with low charges

INVENTOR(S):

Mizutani, Sachio; Yamane, Reiichi; Sada, Toshikatsu Tokuyama Soda Co., Ltd.

PATENT ASSIGNEE(S): SOURCE:

Jpn. Tokkyo Koho, 8 pp.

CODEN: JAXXAD

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	'NO. KIND DATE		APPLICATION NO.	DATE		
JP 46023607	B4	19710706	JP 1965-69945	19651116		

AB A polyelectrolyte having mol. weight > 100 and cationic functional groups was added to an electrolyte solution

containing .geq. 2 differently charged cations, and the solution was selectively

dialyzed with a cation-exchange membrane to sep. the cation with lower charge. The polyelectrolyte could be attached to the cation-exchange membrane. Thus, a mixture of PVC powder 1, styrene 0.90, 50% divinylbenzene

0.10, dioctyl phthalate 0.3, and Bz2O2 0.01 part was applied to a 1.6-mesh $\,$

polyethylene net and the net was sandwiched with 2 sheets of cellophane, heated 3 hr at 110.deg. and sulfonated 24 hr at 50.deg. with 98% H2SO4. The membrane was used to dialyze a solution containing 0.2 N NaCl and 0.2 N CaCl2

with cation transference number 0.98, elec. resistance 7 Ω -cm2, and relative transference 2.5 for Ca2+-Na+. When 20 ppm poly(2-vinylpyridinium chloride) [28576-06-9] (mol. weight 30,000) was added to

cathode chamber, the resistance increased to $10~\Omega$ -cm2 and the relative transference dropped to 0.4 for Ca2+-Na+. Polyethylenimine [9002-98-6] was also useful as well as polyelectrolytes given in 18 other examples.

L10 ANSWER 21 OF 24 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on

STN

ACCESSION NUMBER:

2004:71528 BIOSIS

DOCUMENT NUMBER:

PREV200400073056

TITLE:

Azulene incorporation and release by hydrogel containing methacrylamide propyltrimenthylammonium chloride, and its

application to soft contact lens.

AUTHOR (S):

Uchida, Rei [Reprint Author]; Sato, Takao; Tanigawa,

Haruyasu; Uno, Kenji

CORPORATE SOURCE:

Research and Development Department, SEED Co., Ltd., 117-1

Kano, Okegawa, Saitama, 363-0001, Japan

rei uchida@seed.co.jp

SOURCE:

Journal of Controlled Release, (30 October 2003) Vol. 92,

No. 3, pp. 259-264. print. ISSN: 0168-3659 (ISSN print).

DOCUMENT TYPE:

Article English

LANGUAGE: ENTRY DATE:

Entered STN: 4 Feb 2004

Last Updated on STN: 4 Feb 2004

AB We have developed the epoch-making contact lens that is equipped with drug

delivery system. The hydrogels contain cationic functional group in its side chain were prepared with 2-hydroxyethyl methacylate (HEMA) and methacrylamide propyltrimenthylammonium chloride (MAPTAC). The obtained hydrogel is capable to store the anionic drug such as azulene based on ion-exchange reaction. The incorporated anionic drug would be released in physiological condition. The size change of the hydrogel may occur before and after drug release, but we have discovered that the addition of anionic monomer such as methacrylic acid (MAA) and 2-methacryloxyethyl acid phosphate (MOEP) to the above-mentioned composition is effective to prevent the size change, indicating that this hydrogel has the possibility to be applied as a significant drug delivery system device.

L10 ANSWER 22 OF 24 MEDLINE on STN

ACCESSION NUMBER:

2003491414

MEDLINE

DOCUMENT NUMBER:

PubMed ID: 14568407

TITLE:

Azulene incorporation and release by hydrogel containing

methacrylamide propyltrimenthylammonium chloride, and its

application to soft contact lens.

AUTHOR:

Uchida Rei; Sato Takao; Tanigawa Haruyasu; Uno Kenji

CORPORATE SOURCE:

Research and Development Department, SEED Co., Ltd., 117-1

Kano, Okegawa, Saitama 363-0001, Japan..

rei uchida@seed.co.jp

SOURCE:

Journal of controlled release : official journal of the Controlled Release Society, (2003 Oct 30) 92 (3) 259-64.

Journal code: 8607908. ISSN: 0168-3659.

PUB. COUNTRY:

Netherlands

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200406

ENTRY DATE:

Entered STN: 20031022

Last Updated on STN: 20040615 Entered Medline: 20040614

AB We have developed the epoch-making contact lens that is equipped with drug

delivery system. The hydrogels contain cationic functional group in its side chain were prepared with 2-hydroxyethyl methacylate (HEMA) and methacylamide

propyltrimethylammonium chloride (MAPTAC). The obtained hydrogel is capable to store the anionic drug such as azulene based on ion-exchange reaction. The incorporated anionic drug would be released in physiological condition. The size change of the hydrogel may occur before and after drug release, but we have discovered that the addition of anionic monomer such as methacrylic acid (MAA) and 2-methacryloxyethyl acid phosphate (MOEP) to the above-mentioned composition is effective to prevent the size change, indicating that this hydrogel has the possibility to be applied as a significant drug delivery system device.

L10 ANSWER 23 OF 24 MEDLINE ON STN ACCESSION NUMBER: 96118671 MEDLINE DOCUMENT NUMBER: PubMed ID: 7496484

OCCUMENT NUMBER: Pubmed 1D: 7496484

TITLE: Purification of recombinant human basic fibroblast growth factor: stability of selective sorbents under cleaning in

place conditions.

AUTHOR: Anspach F B; Spille H; Rinas U

CORPORATE SOURCE: GBF-National Research Centre for Biotechnology,

Braunschweig, Germany.

SOURCE: Journal of chromatography. A, (1995 Sep 8) 711 (1) 129-39.

Journal code: 9318488.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199601

ENTRY DATE: Entered STN: 19960217

Last Updated on STN: 19960217 Entered Medline: 19960116

AB Human basic fibroblast growth factor (bFGF) was produced from recombinant Escherichia coli by high-cell-density cultivation. In order to develop a purification strategy for large-scale purification, chromatographic sorbents with different anionic functional

groups were compared in terms of selectivity for bFGF and stability under cleaning in place (CIP) conditions. Heparin-Sepharose CL-6B, Fractogel EMD-SO3- 650 (S) and SP-Sepharose (high performance)

were

found suitable for this purpose with decreasing selectivity in that order.

Each sorbent was treated eight times under CIP conditions employing both 0.2 and 1.0 M NaOH, in order to study modifications of these sorbents. Heparin-Sepharose displayed more than 50% loss of capacity after the first

CIP treatment and decreasing selectivity with each cycle. Both cation exchangers displayed almost constant results regarding selectivity and capacity. The Fractogel EMD-SO3- exhibited only slightly lower selectivity for bFGF than Heparin-Sepharose and the highest capacity of all sorbents tested. Agglomeration of bFGF at low salt concentrations

was

a serious problem. By direct application of pooled fractions from Fractogel EMD-SO3- onto Heparin-Sepharose a highly pure product was obtained; however, the recovery after Heparin-Sepharose was only 30%.

L10 ANSWER 24 OF 24 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2004129033 EMBASE

TITLE: Azulene incorporation and release by hydrogel containing

methacrylamide propyltrimenthylammonium chloride, and its

application to soft contact lens.

Uchida R.; Sato T.; Tanigawa H.; Uno K. AUTHOR:

R. Uchida, Research and Development Department, SEED Co., CORPORATE SOURCE:

Ltd., 117-1 Kano, Okegawa, Saitama 363-0001, Japan.

rei uchida@seed.co.jp

Journal of Controlled Release, (30 Oct 2003) 92/3 SOURCE:

> (259-264). Refs: 12

ISSN: 0168-3659 CODEN: JCREEC

S 0168-3659(03)00368-7 PUBLISHER IDENT .:

COUNTRY: DOCUMENT TYPE: Netherlands Journal; Article

FILE SEGMENT:

Drug Literature Index 037

039 Pharmacy

LANGUAGE:

English

English SUMMARY LANGUAGE:

We have developed the epoch-making contact lens that is equipped with AB drug

delivery system. The hydrogels contain cationic functional group in its side chain were prepared with 2-hydroxyethyl methacylate (HEMA) and methacrylamide propyltrimethylammonium chloride (MAPTAC). The obtained hydrogel is capable to store the anionic drug such as azulene based on ionexchange reaction. The incorporated anionic drug would be released in physiological condition. The size change of the hydrogel may occur before and after drug release, but we have discovered that the addition

of anionic monomer such as methacrylic acid (MAA) and 2-methacryloxyethyl acid phosphate (MOEP) to the above-mentioned composition is effective to prevent the size change, indicating that this hydrogel has the possibility

to be applied as a significant drug delivery system device. .COPYRGT.

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=> L8

L11 55 L8

=> d ibib abs 1-55

CAPLUS COPYRIGHT 2004 ACS on STN L11 ANSWER 1 OF 55

ACCESSION NUMBER:

2004:877952 CAPLUS

DOCUMENT NUMBER:

141:355379

TITLE:

Novel amoxicillin pharmaceutical compositions

INVENTOR(S):

Chorin, Roland; Cartwright, James; Causeret, Nathalie

Barges; Castan, Catherine; Guimberteau, Florence;

Meyrueix, Remi

PATENT ASSIGNEE(S):

Fr.

SOURCE:

U.S. Pat. Appl. Publ., 16 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004208936	A1	20041021	US 2003-612651	20030702
PRIORITY APPLN. INFO.:			GB 2002-16993 A	20020722

Modified release pharmaceutical formulations comprising AB microcapsules of amoxicillin, optionally immediate release amoxicillin

and

optionally clavulanate are of use in treating bacterial infections, in particular the empirical treatment of infections where penicillin resistant Streptococcus pneumoniae may be implicated. For example, microcapsules were prepared by spray coating 700.0 g of amoxicillin/polyvinylpyrrolidone granulate with a composition containing

68.7 g

Ethocel 7 premium, 15.3 g Plasdone K29/32, 7.6 g castor oil, 3.8 g Cremophor RH 40, 601.4 g ethanol, and 257.7 g water. The yield obtained was > 95%.

L11 ANSWER 2 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:677771 CAPLUS

DOCUMENT NUMBER:

141:175633

TTTLE

Water-thinned pigment ink compositions with good storage stability and method and system for image

formation

INVENTOR(S):

Koyanagi, Takashi

PATENT ASSIGNEE(S):

Seiko Epson Corp., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 2004231711	A2	20040819	JP 2003-19724	20030129		
PRIORITY APPLN. INFO.:			JP 2003-19724	20030129		

The compns. comprise (A) hydrophobic pigments and (B) dispersing comb AΒ graft polymers composed of (a) main chains containing (30-75): (70-25) hydrophobic units and hydrophilic units having anionic functional groups and (b) side chains containing ≤30% (based on the dispersing polymers) cationic hydrophilic units. Thus, an ink containing 7.0% FW 18 (carbon black) and 5.0% comb graft copolymer composed of 67:33 styrene-acrylic acid copolymer main chain and 20% polyacrylamide side chain was used for ink-jet printing, resulting in good discharge stability and high optical d.

L11 ANSWER 3 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:80178 CAPLUS

DOCUMENT NUMBER:

140:151926

TITLE:

Modified-release microcapsules with slightly

soluble active ingredients for oral administration Guimberteau, Florence; Castan, Catherine; Meyrueix,

INVENTOR(S):

Remi; Soula, Gerard

PATENT ASSIGNEE(S):

Flamel Technologies, Fr.

SOURCE:

Fr. Demande, 28 pp.

CODEN: FRXXBL

DOCUMENT TYPE:

Patent

LANGUAGE: FAMILY ACC. NUM. COUNT:

French

PATENT INFORMATION:

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PATENT NO.
                       KIND
                               DATE
                                          APPLICATION NO.
                                                                 DATE
                       ____
                                          ______
                              -----
                                                                 -----
    FR 2842735
                        A1
                               20040130
                                          FR 2002-9530
                                                                 20020726
                                          WO 2003-FR2384
    WO 2004010984
                        A2
                               20040205
                                                                 20030728
    WO 2004010984
                        A3
                               20040408
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
            PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
            TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
            FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                          FR 2002-9530
                                                             A 20020726
```

AΒ Modified-release microcapsules allowing the release of active principal in a reliable and reproducible way of not very water soluble compds. are disclosed. Each of these microcapsules comprises a core containing not a very soluble active principle and a film of coating applied to

the core. Their average diameter is smaller than 1000 µm. The film of coating contains a film forming polymer insol. in the gastro-intestinal tract; a water-soluble polymer; a plasticizer; and possibly a surface-active

agent, and a lubricant. This film of coating represents at least 4% of dry total mass. Microcapsule contained Plasdone K29/32 2.55, and acyclovir 82.45% in the core; Ethocel 6.15, Plasdone K29/32 6.15, magnesium stearate 1.50, castor oil 1.20% in the coating were prepared Eighty percent of acyclovir was released in 3 h.

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 4 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

8

ACCESSION NUMBER:

2003:719683 CAPLUS

DOCUMENT NUMBER:

139:232113

TITLE:

Paper materials comprising aqueous anionic emulsions of reactive sizes or anhydride sizes stabilized by 0.5-30 parts water-soluble

anionic polymers or anionic starch

per part size for manufacture of paper with good retention of emulsion particles and manufacture of internally sized paper using the emulsions therefrom

INVENTOR(S):

Rasheed, Ahmed Atef; Langley, John Graham Amcol International Corporation, USA

PCT Int. Appl., 37 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT 1	NO.			KINI	D	DATE		2	APPL	ICAT	ION I	NO.		D	ATE	
					-										-,	
WO 2003	07478	37		A1		2003	0912	1	WO 2	003-0	GB914	4		20	0030	304
W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DΖ,	EC,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,
	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,

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LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO:

EP 2002-251485

A 20020304
```

AΒ The anionic aqueous emulsions (A1) comprise emulsions of sizes wholly or mainly stabilized by 0.5-30 parts H2O-soluble anionic polymeric stabilizers from H2O-soluble synthetic polymers, naturally occurring polymers, and anionic-modified naturally occurring polymers per part size, or the anionic emulsions comprise A1 emulsions having the sizes comprising a reactive size, or the anionic emulsions comprise A1 emulsions having the sizes comprising an anhydride size, or the anionic emulsions comprise A1 emulsions comprising an anhydride size in H2O stabilized by 0.5-10 parts anionic starch per part size and showing average particle diameter <600 nm, and are stable for ≥24 h. The internally sized paper (including paperboard) is prepared by mixing A1 emulsion into a cellulose emulsion, mixing a retention aid into the suspension before, during, or after the step of mixing the size emulsion into the suspension,

draining the suspension to form a sheet, and drying the sheet. A liquid mixture containing 1% alkenylsuccinic anhydride (I) and 2% anionic potato starch was mixed to give an emulsion (A) showing average particle diameter

500 nm and exhibiting same particle diameter on keeping the emulsion for 3

wk. An aqueous furnish containing 50:50 mixture of softwood pulp and hardwood pulp

was mixed with A emulsion for 15 s to form a furnish showing I dosage 0.5%

(on furnish solids), stirred 40 s after adding 0.05% cationic polyacrylamide to the mixture, subsequently stirred 10 s after adding 0.2% bentonite to the mixture, made into a handsheet, and dried to give paper showing Cobb value 12 g/m2 and Hercules value 1300 s. A handsheet containing 0.3% (on furnish solids) I and 4% anionic starch showed tensile strength 1.87 kN/m2.

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 5 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:396956 CAPLUS

DOCUMENT NUMBER:

138:387042

TITLE:

Production of polyacrylamide and multivalent

cation-modified starch for treating

aqueous paper dispersions

INVENTOR(S):

Moffett, Robert Harvey

PATENT ASSIGNEE(S):

E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

```
WO 2003042295
                                20030522 WO 2002-US37316
                                                                   20021113
                         A1
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT,
             TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,
             CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 2003102097
                          A1
                                20030605
                                            US 2001-66969
                                                                   20011113
     US 6699363
                          B2
                                20040302
     EP 1448699
                          Α1
                                20040825
                                            EP 2002-784528
                                                                   20021113
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
PRIORITY APPLN. INFO.:
                                            US 2001-66969
                                                                Α
                                                                   20011113
                                            WO 2002-US37316
                                                                   20021113
     A process for producing a modified starch product comprises
     heating a composition containing a starch, a polyacrylamide, and a
     multivalent cation, the weight ratio of the starch to the
     polyacrylamide being > 2. The heating is carried out at pH above
     7.0, if the polyacrylamide is a cationic
     polyacrylamide or nonionic polyacrylamide, and, if the
     starch is a cationic starch and the polyacrylamide is
     an amphoteric or anionic polyacrylamide, the heating
     neutralizes < 75% of the cationic starch. The process can also
     comprise heating a composition which consists essentially of a starch
and a
     polyacrylamide to produce a heated composition, followed by contacting
     the heated composition with a multivalent cation. The
     modified starch is used as a retention aid in papermaking to
     improve retention of fine particles and fibers, and wet-end drainage.
     Thus, a modified starch was produced by heating at 90° a
     composition comprising cationic polyacrylamide (Percol
     182), a cationic potato starch (Stalok 410), MgSO4 and NaOH.
REFERENCE COUNT:
                         5
                               THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT
L11 ANSWER 6 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN
                         2003:178134 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         138:192367
                         Preparation and application of polymer organic
TITLE:
                         flocculants
                         Wang, Chunmei; Hu, Xiaolin; Zhang, Zhongxiu
AUTHOR(S):
                         Department of Chemical Engineering, Nantong
CORPORATE SOURCE:
                         Engineering College, Nantong, Jiangsu Province,
                         226007, Peop. Rep. China
SOURCE:
                         Gongye Yongshui Yu Feishui (2002), 33(1), 33-35
                         CODEN: GYYFAV; ISSN: 1009-2455
PUBLISHER:
                         Gonqye Yongshui Yu Feishui Bianjibu
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         Chinese
     The cationic modified polyacrylamide (MPAM)
     and polypolyamine (PPA) were prepared and applied to the flocculation
```

treatment of the wastewater from textile printing and dyeing. Some

factors, such as temperature, reaction time, concentration and ratio of reactants,

optimum amount of addition, and pH value are discussed. The results showed

that MPAM lowered COD value significantly, when PAM was modified under the conditions of PAM:HCHO:(CH3)2NH ratio 1.0:1.0:1.5, at temperature

70°, and with the reaction time 2h. PPA lowered colority significantly, which was prepared at 90°C, with reactant concentration 48.8%, and reaction time 6h. A good effect was observed when the mixture of

MPSM, PPA and PAC was used.

L11 ANSWER 7 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:113002 CAPLUS

DOCUMENT NUMBER:

138:154400

TITLE:

Deodoring and antiaggregation paste compositions when

packaged in pliable bags and containers

INVENTOR(S):

Yoshida, Yasushi; Fujiu, Akira

PATENT ASSIGNEE(S):

Kao Corp., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003041483	A2	20030213	JP 2001-227514	20010727
PRIORITY APPLN. INFO.:			JP 2001-227514	20010727

AB The title compns. comprise: (A) a polymer containing units from vinyl acetate

and at least one of unsatd. carboxylic acids or their lower alc. esters, (B) nonionic surfactant, and (C) fragrance substances, and the bags and containers have all light transmittance at 200-800 nm \leq 30%. Thus, emulsion polymerizing **cationic-modified** starch, with vinyl acetate, acrylic acid and N,N-**dimethylacrylamide** gave an A, 65 parts of which was mixed with 3 parts propylene glycol, 0.2 parts KM 97 (silicone) and C to give a title composition storaged in a bag laminated

nylon, LDPE and aluminum foil, wherein C contains: undecyl aldehyde, amyl salicylate, coumarin, cyclamen aldehyde, α -ionone, lavender oil, rose oxide, rosemary oil, and alcs.

L11 ANSWER 8 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:98007 CAPLUS

DOCUMENT NUMBER:

138:125996

TITLE:

from

Formulations containing polyacrylamide

/sodium acrylate and cellulose, mulch and/or seeds

for

preventing soil erosion

INVENTOR(S):

Harrison, Scott

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 4 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003027891	A1	20030206	US 2001-897093	20010629
US 6562882	B2	20030513		
US 2003153647	A1	20030814	US 2003-368904	20030218
PRIORITY APPLN. INFO.:			US 2001-897093 A	1 20010629

Compns. for preventing soil-erosion comprise either an aqueous mixture AB of a

polymer mixed with an organic material or a polymer and organic material that

can be mixed in water. The polymer preferably comprises polyacrylamides with anionic functional

groups. The organic base is comprised of cellulose, mulch and/or seed. The compns. are mixed in aqueous solution and applied to the soil directly

to be protected from erosion.

L11 ANSWER 9 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:69034 CAPLUS

DOCUMENT NUMBER:

138:124138

TITLE:

Masking paper with good sizing properties and wet tensile strength manufactured by forming paper from

paper stocks containing CM-cellulose and ≥1

paper strengthening agent and manufacture thereof Gondo, Tomohisa; Watanabe, Shosuke; Hakuto, Kenji;

Kitao, Osamu

INVENTOR (S):

Oji Paper Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 6 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
JP 2003027391	A2	20030129	JP 2001-215508	20010716
PRIORITY APPLN. INFO.:			JP 2001-215508	20010716

The masking paper (A) contains 0.01-3.0% (on pulp) CM-cellulose (I) with AB degree of substitution 0.3-0.6, or the masking paper comprises A masking paper exhibiting tensile strength in the wet state 0.4-3.0 kN/m as measured by the method of JIS P-8135, or the masking paper comprises A masking paper exhibiting Stochigt sizing degree ≥3 s as measured by the method of JIS P-8122, or the masking paper comprising A masking paper exhibiting surface strength ≥14 as measured by the method of Japan Tappi paper and paper testing Number 1 A method. The masking A paper is prepared by forming paper from paper stocks containing 0.1-2.0% (on pulp) I with

degree of substitution 0.3-0.6 and ≥1 type of paper strengthening agent. A paper stock containing 55:45 mixture of hardwood bleached kraft pulp

and softwood bleached kraft pulp, 0.1% (on pulp) I with degree of substitution 0.45, 1.5% AL-120 (sizing agent), 0.9% PS 194-7 (anionic polyacrylamide paper strengthening agent) , and 0.9% U-Ramin P 1510 (cationic-modified urea resin wet

paper strengthening agent) was made into paper using a papermaking machine

and dried to give a masking paper with breaking length 9.2 km, wet tensile

strength 0.82 kN/m, surface strength 20 A (surface) and 20 A (back) and exhibiting Stochigt sizing degree 6 s.

L11 ANSWER 10 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:964239 CAPLUS

DOCUMENT NUMBER: 138:44343

TITLE: A method for perchlorate removal from ground water INVENTOR(S): Cannon, Fred S.; Parette, Robert B.; Na, Chongzheng;

Chen, Weifang; Hagerup, Benjamin

PATENT ASSIGNEE(S): The Penn State Research Foundation, USA

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.							KIND DATE			APPLICATION NO.					DATE			
	WO 2002100509			A1 20021219			1	WO 2	002-1	JS18:		20020607						
		W:	ΑE,	AG,	ΑL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	OM,	PH,
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
			UA,	UG,	UΖ,	VN,	YU,	ZA,	ZM,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,
MT																		
		RW:	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑT,	BE,	CH,
			CY,	DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,
			BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
US 2003080065						A1		2003	0501	US 2002-164843					20020607			
PRIORITY APPLN. INFO.:										1	US 2	001-	2968	62P		P 20	0010	608

AB A method for removing perchlorate or other **anionic** contaminates from groundwater which comprises the step of passing the groundwater over activated carbon, wherein the activated carbon has been either preloaded with an organic **cationic functional group** or

organic cationic polymer or cationic monomer, or tailored with ammonium or other reduced nitrogen-containing compound

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 11 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:220421 CAPLUS

DOCUMENT NUMBER: 136:268234

TITLE: Hydrophilic, lubricious medical devices having

contrast for magnetic resonance imaging

INVENTOR(S): Schachter, Deborah; Fan, You-Ling; Rutar, Venceslav

PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology

Corporation, USA

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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APPLICATION NO.
                              DATE
    PATENT NO.
                       KIND
                                          _____
                                                                 _____
                              _____
    ______
                       _ _ _ _
                                          WO 2001-US12458
                                                                 20010417
                        A1
                               20020321
    WO 2002022186
        W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
            CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
            IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
            MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
            SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
            AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                        AA
                               20020321
                                          CA 2001-2421931
    CA 2421931
                                                                 20010417
                               20020326
                                          AU 2001-53591
    AU 2001053591
                         Α5
                                          EP 2001-927110
                                                                 20010417
                               20030618
                        A1
    EP 1318845
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
    BR 2001013758
                        Α
                               20030715
                                          BR 2001-13758
                                                                 20010417
    US 2004058082
                               20040325
                                          US 2003-362203
                                                                 20030221
                        Α1
                                          US 2000-231601P
                                                                 20000911
PRIORITY APPLN. INFO.:
                                           WO 2001-US12458
                                                              W
                                                                 20010417
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Disclosed are medical devices having lubricious coatings which are AB capable

of producing magnetic resonance image in the presence of a suitable magnetic field. The medical devices are easy to manipulate in body channels because of reduced friction with tissue surfaces and can be readily visualized in real time, which greatly facilitates the tracking

the medical devices while present within the bodies of humans or animals. The level of magnetic susceptible agent in the coatings of medical devices

can be easily controlled by the present invention to give the desired performance. Coating processes to produce these medical devices are also disclosed. An example illustrated the incorporation of a paramagnetic ion

[DTPA Gd(III) dihydrogen salt hydrate] into the coating of a medical device (a guidewire constructed of a nylon/polyethylene copolymer). THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 1 RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

of

L11 ANSWER 12 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:736324 CAPLUS

DOCUMENT NUMBER:

134:209527

TITLE:

The effects of cationic agents on retention

and sizing of emulsion rosin size

AUTHOR (S): CORPORATE SOURCE: Seki, Junko; Kamijo, Yasuyuki; Miyanishi, Takanori Pulp & Paper Research Laboratory, Nippon Paper

Industries Co., Ltd., Japan

SOURCE:

Kami Pa Gikyoshi (2000), 54(10), 1414-1422

CODEN: KAGIAU; ISSN: 0022-815X

PUBLISHER:

Kami Parupu Gijutsu Kyokai

DOCUMENT TYPE:

Journal Japanese

LANGUAGE:

The effects of cationic agents on the retention and development of sizing with emulsion rosin size were studied under acid papermaking. The retention of emulsion rosin size was affected by alum and cationic polymers such as size fixing agents and retention aids.

Cationic polymers were consumed primarily in the retention of ash
 rather than retaining rosin size. In the presence of alum the
development

of sizing on the handsheets took place when the rosin size contents were greater than 0.25%. Without alum addition, however, sizing development

on the handsheets did not take place in spite of adequate rosin size concentration

The results suggest that, the fixing mechanism of rosin in handsheets, prepared with and without alum was different.

L11 ANSWER 13 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:585313 CAPLUS

DOCUMENT NUMBER:

133:182069

TITLE:

System for photocatalytic removal of indoor air

pollutants

INVENTOR(S):

Minami, Toshiaki; Satake, Sumi

PATENT ASSIGNEE(S):

Nihon Seishi K. K., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000229220	A2	20000822	JP 1999-29443	19990208
PRIORITY APPLN. INFO.:			JP 1999-29443	19990208

AB The system comprises a radiational light source covered with honeycomb-structured cylinder comprising of an organic support and a photocatalytic semiconductor-supporting sheet. Fluorescent light is used as the light source.

L11 ANSWER 14 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:249637 CAPLUS

DOCUMENT NUMBER:

132:283855

TITLE:

Production of fluid-impermeable reactive barrier

useful in preventing downward migration of pollutants

in groundwater reservoirs

INVENTOR(S):

Lockhart, Thomas Paul

PATENT ASSIGNEE(S): SOURCE: Eniricerche S.P.A., Italy Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000107745	A2	20000418	JP 1999-283100	19991004
PRIORITY APPLN. INFO.:			IT 1998-MI2123	19981002

AB The title method comprises (a) hydraulic fracturing of the ground surface by injecting with a reactive composition comprising (i) an aqueous solution or

suspension containing gelling materials; (ii) aqueous suspension of solids such as

clays, CaCO3, colloidal polymers, coal or **modified** amides, and (iii) a montan wax solution/suspension suitable for solidification after cooling; through injection wells under elevated pressure around the boreholes, and (b) repeatly injection with the composition of (i)-(iii)

into

the boreholes and maintaining the wells under elevated pressure to form fluid-impermeable in-situ reactive barrier in ground for preventing downward migration of nonaq. phase liqs. (NAPLs) from contaminated groundwater regimes. The gelling material aqueous solution or suspension may

contains (a) guar gum, hydroxypropylguar, carboxymethylhydroxypropyl guar in the presence of polyvalent metal ions; (b) polyacrylamide in the presence of polyvalent metal ions; (c) xanthan gum in the presence of Ti4+ or B3+ ions; (d) lignin sulfonates; and/or (e) cellulose derivs., phosphate esters-modified amides, or polysaccharides substituted with anionic functional groups in the presence of polyvalent metal ions.

L11 ANSWER 15 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:45182 CAPLUS

DOCUMENT NUMBER:

130:111706

TITLE:

Modified cationic starch

composition for use as retention aid in paper

manufacture

INVENTOR (S):

Moffett, Robert Harvey

PATENT ASSIGNEE(S):

E. I. Du Pont de Nemours & Co., USA

SOURCE:

U.S., 6 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PAMILI ACC. NOW. COOKI.

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE						
US 5859128	A 19990112	19990112 US 1997-960648							
US 5928474	A 19990727	19990727 US 1998-176502							
US 6033525	A 20000307	US 1998-176674	19981021						
US 6048929	A 20000411	US 1998-176002	19981021						
CA 2305471	AA 19990514	CA 1998-2305471	19981023						
CA 2307025	AA 19990514	CA 1998-2307025	19981023						
WO 9923155	A1 19990514	WO 1998-US22488	19981023						
W: AL, AM, AU,	AZ, BA, BB, BG,	BR, BY, CA, CN, CU, CZ,	EE, GD, GE,						
HR, HU, ID,	IL, IS, JP, KG,	KP, KR, KZ, LC, LK, LR,	LT, LV, MD,						
MG, MK, MN,	MX, NO, NZ, PL,	RO, RU, SG, SI, SK, SL,	TJ, TM, TR,						
TT, UA, UZ,	VN, YU, AM, AZ,	BY, KG, KZ, MD, RU, TJ,	TM						
RW: GH, GM, KE,	LS, MW, SD, SZ,	UG, ZW, AT, BE, CH, CY,	DE, DK, ES,						
		MC, NL, PT, SE, BF, BJ,							
	GW, ML, MR, NE,		, ,,						
		WO 1998-US22489	19981023						
		BR, BY, CA, CN, CU, CZ,							
	, , , ,	KP, KR, KZ, LC, LK, LR,							
• • •		RO, RU, SG, SI, SK, SL,							
· · · · · · · · · · · · · · · · · · ·		BY, KG, KZ, MD, RU, TJ,	•						
		UG, ZW, AT, BE, CH, CY,							
· · · · · · · · · · · · · · · · · · ·		MC, NL, PT, SE, BF, BJ,							
•	GW, ML, MR, NE,		, -,,						
• • •		AU 1999-11177	19981023						
	B2 20010726								
		AU 1999-11178	19981023						

BR 9812988
EP 1025159
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI EP 1025160
FI
FI
EP 1025160 B1 20020904 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI BR 9813275 A 20000822 BR 1998-13275 19981023 NZ 504093 A 20010330 NZ 1998-504093 19981023 NZ 504094 A 20010629 NZ 1998-504094 19981023 JP 2001521995 T2 20011113 JP 2000-519023 19981023 JP 2001521965 T2 20011113 JP 2000-519024 19981023 AT 223459 E 20020915 AT 1998-953929 19981023 AT 224426 E 20021015 AT 1998-953928 19981023 PT 1025159 T 20021129 PT 1998-953928 19981023
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, BR 9813275
FI BR 9813275 A 20000822 BR 1998-13275 19981023 NZ 504093 A 20010330 NZ 1998-504093 19981023 NZ 504094 A 20010629 NZ 1998-504094 19981023 JP 2001521995 T2 20011113 JP 2000-519023 19981023 JP 2001521965 T2 20011113 JP 2000-519024 19981023 AT 223459 E 20020915 AT 1998-953929 19981023 AT 224426 E 20021015 AT 1998-953928 19981023 PT 1025159 T 20021129 PT 1998-953928 19981023
FI BR 9813275 A 20000822 BR 1998-13275 19981023 NZ 504093 A 20010330 NZ 1998-504093 19981023 NZ 504094 A 20010629 NZ 1998-504094 19981023 JP 2001521995 T2 20011113 JP 2000-519023 19981023 JP 2001521965 T2 20011113 JP 2000-519024 19981023 AT 223459 E 20020915 AT 1998-953929 19981023 AT 224426 E 20021015 AT 1998-953928 19981023 PT 1025159 T 20021129 PT 1998-953928 19981023
NZ 504093 A 20010330 NZ 1998-504093 19981023 NZ 504094 A 20010629 NZ 1998-504094 19981023 JP 2001521995 T2 20011113 JP 2000-519023 19981023 JP 2001521965 T2 20011113 JP 2000-519024 19981023 AT 223459 E 20020915 AT 1998-953929 19981023 AT 224426 E 20021015 AT 1998-953928 19981023 PT 1025159 T 20021129 PT 1998-953928 19981023
NZ 504094 A 20010629 NZ 1998-504094 19981023 JP 2001521995 T2 20011113 JP 2000-519023 19981023 JP 2001521965 T2 20011113 JP 2000-519024 19981023 AT 223459 E 20020915 AT 1998-953929 19981023 AT 224426 E 20021015 AT 1998-953928 19981023 PT 1025159 T 20021129 PT 1998-953928 19981023
JP 2001521995 T2 20011113 JP 2000-519023 19981023 JP 2001521965 T2 20011113 JP 2000-519024 19981023 AT 223459 E 20020915 AT 1998-953929 19981023 AT 224426 E 20021015 AT 1998-953928 19981023 PT 1025159 T 20021129 PT 1998-953928 19981023
JP 2001521965 T2 20011113 JP 2000-519024 19981023 AT 223459 E 20020915 AT 1998-953929 19981023 AT 224426 E 20021015 AT 1998-953928 19981023 PT 1025159 T 20021129 PT 1998-953928 19981023
AT 223459 E 20020915 AT 1998-953929 19981023 AT 224426 E 20021015 AT 1998-953928 19981023 PT 1025159 T 20021129 PT 1998-953928 19981023
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PT 1025159 T 20021129 PT 1998-953928 19981023
PT 1025160 T 20030131 PT 1998-953929 19981023
ES 2182368 T3 20030301 ES 1998-953928 19981023
ES 2182369 T3 20030301 ES 1998-953929 19981023
CN 1103795 B 20030326 CN 1998-810877 19981023
CZ 293483 B6 20040512 CZ 2000-1450 19981023
NO 2000002178 A 20000620 NO 2000-2178 20000427
NO 2000002179 A 20000620 NO 2000-2179 20000427
PRIORITY APPLN. INFO.: US 1997-960648 A3 19971030
US 1998-59556 B2 19980414
US 1998-151344 A2 19980911
WO 1998-US22488 W 19981023
WO 1998-US22489 W 19981023

20010020

AB Modified starches prepared by cooking an amphoteric or cationic starch such as corn starch, potato starch, or waxy maize starch, and an anionic, amphoteric, or cationic polyacrylamide (PAM) have utility as a retention aid in the manufacture of paper. The invention demonstrates how cooking an amphoteric or cationic starch and an anionic, amphoteric, or cationic PAM together yields better retention than adding the same two chems. sep. but simultaneously to the paper furnish, and how adjusting

pH with alkaline aluminum compds. enhances the performance of the cooked blend. Thus, a dry blend comprising 3.0 g of Stalok 300 cationic corn starch, 0.04 g of nonionic PAM, and 497 g of deionized water adjusted

to pH 10.1, was boiled on a hot plate for about 15 min and any weight loss

was made up with water. The above cooked **cationic** corn starch and PAM tested as retention aids to a paper furnish at a dose rate of 0, 0.5, and 1.0 kg SiO2/Tonne, resp., gave ash retention 22%, 33%, and 33%, resp., compared to 11%, 19%, and 22%, resp., for adding the same chems. sep. and simultaneously to the paper furnish.

REFERENCE COUNT:

NTT 000445

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

L11 ANSWER 16 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:681749 CAPLUS

DOCUMENT NUMBER: 127:336250

Treatment of turbid water in aggregate plants TITLE:

INVENTOR(S): Fujisaka, Yasushi; Tajima, Naoki; Sato, Toshiyuki;

Ouchi, Hitoshi; Sakata, Noboru; Minami, Masayoshi;

Yoshizaki, Masato

PATENT ASSIGNEE(S): Kajima Construction Corp., Japan; Sansho Co.

Jpn. Kokai Tokkyo Koho, 5 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent.

Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09267002	A2	19971014	JP 1996-101952	19960401
PRIORITY APPLN. INFO.:			JP 1996-101952	19960401

The turbid water in aggregate plants is flocculated with cation-AΒ modified derivs. of quar qum and optional polyacrylamide

L11 ANSWER 17 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:480766 CAPLUS

DOCUMENT NUMBER:

127:96746

TITLE:

Manufacture methods of paperboards

INVENTOR(S):

Tomii, Nobunori; Goto, Akira; Nakano, Kenji

PATENT ASSIGNEE(S): Seiko Kagaku Kogyo Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND.	DATE	APPLICATION NO.	DATE
JP 09143899	A2	19970603	JP 1995-327851	19951124
JP 3285478	B2	20020527		
PRIORITY APPLN. INFO.:			JP 1995-327851	19951124

The paperboard making process involves coating the wet paper surface with AΒ water-thinned coatings based on (1) amphoteric curable acrylamide copolymers obtained by polymerization of monomer compns. containing curable vinyl

monomers, anionic monomers, cationic vinyl monomers, and acrylamide and/or methacrylamides and (2) cationmodified acrylamide copolymers obtained by Hoffman decomposition

L11 ANSWER 18 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:244358 CAPLUS

DOCUMENT NUMBER:

126:228992

TITLE:

Manufacture and use of a catalytic filter material

for

flue gas treatment

INVENTOR(S):

Plinke, Marc; Sassa, Robert L.; Mortimer, William P.,

Jr.; Brinckman, Glenn A.

PATENT ASSIGNEE(S):

W.L. Gore & Associates, Inc., USA

SOURCE:

PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	CENT I	. OI			KIND DATE			APPLICATION NO.					DATE				
	WO	9706	B77			A1 19970227			1	L996-1	US97	19960607						
																	, DK,	
			ES,	FI,	GB,	GE,	HU,	IL,	IS,	JP,	KE,	, KG,	KP,	KR,	ΚZ,	ΓK	, LR,	LS,
															PΤ,	RO	, RU,	SD,
			,	•	•	•			•		•	, UG,	•					
		RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC	, NL,	PT,
SE		F. 60.0						1000	0415					^ -			10050	015
	US 5620669 CA 2228597																	
	CA	2228	59/			AA		1997	0227		CA 1	1996	2228	597			19960	607
											ד זות	1996-	6165	a			19960	607
	ΔII	7033	055 05			R2		1999	0312		AU 1		0105.				19900	007
											EP 1	1996-	9192	84			19960	607
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			•	-	,	,	,	,	,	,	,	,	,	,	,		,,	,
	JР	1150	8822			T2		1999	0803		JP 1	1997-	5092	55			19960	607
	JΡ	2003	1907	21		A2		2003	0708		JP 2	2002-	2789:	21			19960	607
																	19970	
	AU	9918	351			A1		1999	0506								19990	
PRIO	STT?	APP	LN.	INFO	.:					1	US 1	1995-	5151	95		Α	19950	815
														_				
											AU]	1996-	6165	9		A3	19960	607
										,	JP 1	1997-	5092	55		А3	19960	607
										,	WO 1	1996-1	US97(60		W	19960	607

The improved catalytic filter material for removing contaminants such as AΒ NOx from a fluid stream comprises composite fibers of expanded polytetrafluoroethylene (PTFE) filled with catalytic particles. The composite fibers are chopped into staple fibers and made into a felt material. Preferably, the felt material is then laminated on at least one

side with a protective microporous membrane. The combined filter removes both macro-particles, such as dust, from the filter stream before the dust

can clog active catalytic sites and effectively catalytically converts undesirable contaminants in the fluid stream to acceptable end products.

L11 ANSWER 19 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:954635 CAPLUS

DOCUMENT NUMBER:

123:343710

TITLE:

Resuable resilient gasket and method for use

INVENTOR(S):

Dauber, Edwin G.; Hubis, Daniel E.; Mcgregor, Gordon

L.; Minor, Raymond B.; Mortimer, William P.

PATENT ASSIGNEE(S):

W. L. Gore and Associates, Inc., USA

SOURCE:

PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.									APPLICATION NO.							DATE		
WO	9520									 WO	1994-	US49	10]	.9940	 504		
	W:	AT,	AU,	BB,	BG,	BR,	BY,	CA,	CH,	CN	, CZ,	DE,	DK,	ES,	FI,	GB,	HU,		
		JP,	ΚP,	KR,	ΚZ,	LK,	LU,	MG,	MN,	MW	, NL,	NO,	NZ,	ΡL,	PT,	RO,	RU,		
		SD,	SE,	SK,	UA,	VN													
	RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IE,	IT,	LU,	MC,	NL,	PT,	SE		
CA	2178	494			AA		1995	0727		CA	1994-	2178	494		1	9940	504		
CA	2178	494			С		2000	0229											
AU	9472	420			A1		1995	8080		ΑU	1994-	7242	0		1	9940	504		
EP	7417	66			A1		1996	1113		ΕP	1994-	9218	97		1	9940	504		
EP	7417	66			B1		1998	0909											
		DE,																	
បន	5916	671			Α		1999	0629											
PRIORIT	Y APP	LN.	INFO	. :					1	US	1994-	1863	68		A 1	9940	124		
									•	US	1993-	2364	2		B2 1	.9930	226		
									1	WO	1994-	US49	10	1	W 1	9940	504		

AB Title gaskets, useful for computer disk drives and as vent or breather filters, contain ≥1 layer of deformation-resistant composites of porous polymers (e.g, PTFE) and resilient expandable microspheres. Coagulating an aqueous dispersion containing 5:95 Expancel 091 DU and PTFE with

cationic modified polyacrylamide, drying the

coagulum, grinding, lubricating with mineral spirits, chilling, passing through a mesh screen, tumbling, storing at 18° for 16 h,

re-tumbling, forming into pellets, extruding, and drying gave an extrudate

having a length (L) of 19.04 cm, a diameter of (D) 0.297 cm, a weight of 1.924

g, and a calculated d. 1.457 g/cm3, which was heated at 165° for 3 min to form a product with L 28.1 cm, D 0.569 cm, weight 1.918 g, and calculated d.

0.268 g/cm3.

L11 ANSWER 20 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:721987 CAPLUS

DOCUMENT NUMBER:

123:257711

TITLE:

Study on the flocculability and thickening property

of

modified polyacrylamide

AUTHOR(S):

Guo, Deji; Chen Zhongxiang; Hu, Yunzhi

CORPORATE SOURCE:

Chem. Eng. Dep., East China Inst. Metall., Maanshan,

Peop. Rep. China

SOURCE:

Huadong Yejin Xueyuan Xuebao (1995), 12(4), 386-91

CODEN: HYEXEY; ISSN: 1000-2170

PUBLISHER:

Huadong Yejin Xueyuan Xuebao Bianjibu

DOCUMENT TYPE:

Journal

LANGUAGE: Chinese

AB The optimal conditions for **cationic** modification of mid-mol. weight **polyacrylamide** water solution with formaldehyde and diethylamine sulfate were studied. The flocculability, the thickening property of the product were investigated.

L11 ANSWER 21 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1994:459365 CAPLUS

DOCUMENT NUMBER:

121:59365

TITLE: INVENTOR(S): Preparation of phenolic resin foams Takahashi, Hiroo; Koikezawa, Akira

PATENT ASSIGNEE(S): SOURCE:

Nitto Boseki Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
JP 06093128	A2	19940405	JP 1991-354875	19911219
PRIORITY APPLN. INFO.:			JP 1991-354875	19911219

The title foams with good metal-corrosion resistance and closed-cell structure, useful for heat insulating materials, are prepared by expanding a

mixture comprising phenolic resins, acid hardeners, foam stabilizers, and optionally blowing agent, where the phenolic resins are mixed with powdered

basic materials, obtained by dispersing the basic material in H2O and then

flocking by adding settlers. Thus, 100 g powdered CaCO3 (average diameter 2.6

μm) was dispersed into 300 mL H2O, mixed with 3 g alum, then with 0.8 g cation-modified polyacrylamide, the obtained

flocks were filtered, dried, and crushed to give powders (7 parts as CaCO3), which was blended with phenolic resin (prepared from PhOH 84, 37%-HCHO 558, and brominated cresol monoglycidyl ether 85 parts) 100, L-5340 (foam stabilizer) 0.2, trichlorotrifluoroethane 7, and p-MeC6H4SO3H

15 parts, and heated in a mold at 70° for 40 min to give a foam showing compression strength 2.1 kg/cm2, thermal conductivity 0.021 kcal/m-h-°C, closed cell ratio 90%, and good appearance.

L11 ANSWER 22 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:9393 CAPLUS

DOCUMENT NUMBER:

120:9393

TITLE:

Study on the dissociation of a new cationic

polyacrylamide

AUTHOR (S):

Zang, Qingda; Li, Zhuomei

CORPORATE SOURCE:

Inst. Polym. Sci., Zhongshan Univ., Canton, 510275,

Peop. Rep. China

SOURCE:

Wuli Huaxue Xuebao (1993), 9(5), 679-83

CODEN: WHXUEU; ISSN: 1000-6818

DOCUMENT TYPE:

Journal

LANGUAGE:

Chinese

Polyacrylamide was modified with HCHO and

dicyandiamide to give a new kind of cationic polyelectrolyte

(CP) with different degree of substitution (ds) (different HCHO/CONH2 ratio). CPs are water-soluble and show effective flocculation for active dyes. Dissociation of CPs depends on ds, pH, and added salt concentration Their

reduced viscosity also depends on ds, pH, and polymer dissociation These results are significant for determination of the optimum conditions for synthesis

and applications of CPs.

L11 ANSWER 23 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:494719 CAPLUS

DOCUMENT NUMBER:

115:94719

TITLE:

Manufacture of paper and paperboard with improved

retention and drainage

INVENTOR(S):

Derrick, Arthur P.; Hatton, William

PATENT ASSIGNEE(S):

Vinings Industries, Inc., USA

SOURCE:

U.S., 6 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HG 5033337	 A	19910716	US 1990-547485	19900703
US 5032227				
FI 9102988	Α	19920104		19910619
EP 468558	A2	19920129	EP 1991-201602	19910624
EP 468558	А3	19930714		
EP 468558	B1	19960320		
R: AT, BE, CH	I, DE, DE	C, ES, FR,	GB, IT, LI, LU, NL, SE	
AT 135772	E	19960415	AT 1991-201602	19910624
ES 2086475	Т3	19960701	ES 1991-201602	19910624
CA 2045702	AA	19920104	CA 1991-2045702	19910626
CA 2045702	C	19960604		
AU 9180100	A1	19920109	AU 1991-80100	19910701
AU 641518	B2	19930923		
NO 9102601	Α	19920106	NO 1991-2601	19910702
NO 177866	В	19950828		
NO 177866	С	19951206		
BR 9102791	Α	19920204	BR 1991-2791	19910702
JP 04241194	A2	19920828	JP 1991-163049	19910703
PRIORITY APPLN. INFO.:			US 1990-547485	19900703

The fines retention or drainage properties of paper and paperboard mech. AΒ stocks are improved by including in the thin stock, not after the last point of high shear, particles of a H2O-dispersible colloidal siliceous material, e.g., clay minerals and silica, in intimate association with a low-mol. weight H2O-soluble high anionic charge d. polymer (having a mol. weight <50,000 and a charge d. \geq 4 mequiv/g), and further including in the thin stock, after the last point of high shear, a nonionic high mol. weight polyelectrolyte flocculant having a mol. weight ≥ 100,000. Thus, addition of 0.4% anionic modified clay and 0.03% acrylamide-Na acrylate copolymer (I) to thermomech. pulp (at stock consistency 0.63% and fines fraction content 71%) showed retention 37% and drainage 73 s, compared with 7 and 74 without clay and

L11 ANSWER 24 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:107931 CAPLUS

DOCUMENT NUMBER: TITLE:

Cellulose derivative-containing admixtures for improving the quality and/or workability of gypsum-based grout, mortar, and plaster, and the

admixtures obtained

INVENTOR(S):

Bietz, Rolf; Gruenberger, Eberhard; Kunz, Ulrike;

Ziche, Horst

114:107931

PATENT ASSIGNEE(S):

Aqualon G.m.b.H., Germany

SOURCE:

Ger. Offen., 6 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

FAMILY ACC. NUM. COUNT:

German

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3920025	A1	19910103	DE 1989-3920025	19890620
DE 3920025	C2	19970327		
PRIORITY APPLN. INFO.:			DE 1989-3920025	19890620

The admixts. contain the cellulose derivs., i.e., alkyl-, AB alkylhydroxyalkyl- and/or hydroxyalkyl cellulose, together with minor amts. of a combination of thickeners and plasticizers for the hydraulically hardening gypsum-based mixts. The admixts. permit a higher water/gypsum ratio and gives creamy-bubble-free mixts. having high stability under shear. An admixt., consisting of Me-hydroxyethyl cellulose (defined) 89, Ca lignosulfonate (plasticizer) 5, and cationic modified polyacrylamide 6 weight%, in

amount of 1.8 kg was added to a mixture of plaster of Paris 500, anhydrite III

465, Ca(OH)2 30, Na laurylsulfate (air-entraining agent) 0.1, and com. retardant 0.6 kg. At water/gypsum ratio 0.53:1, the mixture had slump 172

mm, air content 92%, d. 1.61, and excellent workability.

L11 ANSWER 25 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:29109 CAPLUS

DOCUMENT NUMBER:

114:29109

TITLE:

Multicomponent additives for mortar and hydraulically

hardening mortar for thin coatings Schinski, Erhard; Wunderlich, Martin

INVENTOR(S):

Aqualon G.m.b.H., Germany

PATENT ASSIGNEE(S):

Ger. Offen., 4 pp.

SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				-
DE 3913518	A1	19901031	DE 1989-3913518	19890425
PRIORITY APPLN. INFO.:			DE 1989-3913518	19890425

In the additives, comprising a mixture of cellulose ethers, starch AB ethers,

and polymers, the starch ethers and polyacrylamide are present in admixt. with water-soluble, mixed-substituted cellulose ethers that contain, in addition to hydroxyethyl substituents, 3-alkoxy-2-hydroxypropyl

containing 2-8 C atoms in the straight-chain and/or branched alkoxy groups.

These mortar composition have improved setting, adhesion, wear-resistance, and

peel strength (DIN 18156, section 4.3, 4.4, 4.5, and 4.6). The additives are added in amts. of 1-10, preferably approx. 0.3-0.6 weight% (dry

the mortar (dry basis). A dry mixture of portland cement 800, and sand

(0-0.3 mm) 1200, was mixed with multicomponent additive 10 g consisting

of 80 weight% 3-butoxy-2-hydroxypropylhydroxyethyl cellulose having degree

of

hydroxyethyl substitution 3.5 and alkoxyhydroxypropyl group substitution 0.1, 18 weight% hydroxypropyl starch (degree of substitution .apprx.0.7) and

2 weight% strong anion-modified polyacrylamide

(viscosity of 0.5% solution 900 mPa-s). The mixture was mixed with 600 g water

and had slump 15.4 cm, d. 1775 kg/dm3, pore volume 12.0%, early setting time

10 min, and particles >2 mm 0%.

L11 ANSWER 26 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1989:233499 CAPLUS

DOCUMENT NUMBER:

110:233499

TITLE:

Coating compositions for paper

INVENTOR(S):

Nishiura, Osamu; Ikeda, Takeshi; Takizawa, Satoshi;

Yamaquchi, Hisashi; Esashi, Tomoaki

PATENT ASSIGNEE(S):

DIC Hercules, Inc., Japan; Kimitsu Chemical

Industrial

Co., Ltd.

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01014396	A2	19890118	JP 1987-165227	19870703
JP 2572233	B2	19970116		
PRIORITY APPLN. INFO.:			JP 1987-165227	19870703

AB Title compns., useful for improving the printability and water resistance of paper, comprise aqueous solns. of chitosan (I), and starch or its derivs.,

cellulose derivs., poly(vinyl alc.), or polyacrylamide. Thus, paper coated with an aqueous solution containing 0.5% I and 4.5% OJI ACE A (oxidized

starch) (II) at 0.10 g I/m2 and 0.91 g II/m2 showed Stoeckigt sizing degree 5.9 s, Cobb sizing degree (2 min) 36.4 g/m2, dry breaking length 4.56 km, and wet breaking length 0.25 km, vs. 1.6, 171.9, 3.96, and 0.15, resp., for paper coated with 5% aqueous solution of II at 1.10 g/m2.

L11 ANSWER 27 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1988:46872 CAPLUS

DOCUMENT NUMBER:

108:46872

TITLE:

Ink-jet printing receptor for overhead projection

slide

INVENTOR(S):

Sakaki, Mamoru; Arai, Ryuichi; Togano, Shigeo; Akitani, Takashi; Hikuma, Masahiko; Eto, Naonobu; Mori, Hidemasa; Hida, Michiaki; Ishida, Masahiko;

Kono, Shunzo

PATENT ASSIGNEE(S):

Canon K. K., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

Jupuni

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62152779	A2	19870707	JP 1985-292823	19851227
PRIORITY APPLN. INFO.:			JP 1985-292823	19851227

The receptor has ≥2 ink-receiving layers in which the ink-absorbing rate of the upper layer is larger than that of its adjoining lower layer. The ink-receiving layer may be composed of water-soluble or hydrophilic polymers. A light-transmitting PET(polyester) film may be coated successively with a comb-structured polymer LHM 108 (N,N-dimethylacrylamide-2-hydroxyethyl methacrylate-Me methacrylate graft copolymer) solution and a cation-modified poly(vinyl alc.) solution to give a receptor. It shows improved ink fixability and light transmittance.

L11 ANSWER 28 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1987:517253 CAPLUS

DOCUMENT NUMBER:

107:117253

TITLE:

Paper additives: cationic-modified polyacrylamide aqueous solutions

INVENTOR (S):

Kimura, Yoshiharu; Hasegawa, Shigeaki; Noguchi,

Hisao;

Hamada, Masao

PATENT ASSIGNEE(S):

Harima Refractories Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62059602	A2	19870316	JP 1985-199042	19850909
JP 06096839	B4	19941130		
PRIORITY APPLN. INFO.:			JP 1985-199042	19850909

The title solns. are prepared using reaction products of polyacrylamide and hypohalites under alkaline conditions and 1-10% (based on the amide group in acrylamide) R2(CH2)nNHCH2CHR1CONH(CH2)mA (R1 = H, Me; R2 = NH2, OH; A = NR3R4, N+R5R6R7.X-; R3-R7 = alkyl, benzyl; X-

various anions; n = 2-6; m = 1-4). Thus, a product (I) was prepared from dimethylaminopropylmethacrylamide and ethylenediamine. Polyacrylamide (average mol. weight 800,000, 15% aqueous solution 180 g)

was

treated with 90 g aqueous solution (containing 41.5 g NaClO and 3.8 g NaOH for 60 $\,$

min, mixed with 4.4 g I for 20 min, and adjusted to pH 4.5 to give a solution, storage-stable at 40° after 10 days.

L11 ANSWER 29 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1987:214637 CAPLUS

DOCUMENT NUMBER:

106:214637

TITLE:

Cation-modified acrylamide

polymers

INVENTOR(S):

Kametani, Masaya; Arisaka, Ichiro

PATENT ASSIGNEE(S):

Nitto Electric Industrial Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

2

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61120807	A2	19860607	JP 1984-240847	19841116
JP 05027642	B4	19930421		
PRIORITY APPLN. INFO.:			JP 1984-240847	19841116

AB The title polymers with good storage stability are prepared economically by

treating acrylamide polymers with hypochlorites in alkaline media containing

guanidine salts. Thus, 94.7 g 15% aqueous **polyacrylamide** (mol. weight .apprx.55,000) was mixed with a solution of 29.8 g 10% NaOCl and 2.4 g NaOH

for 5 min at 20°, then 1.9 g guanidine hydrochloride (I) was added. After stirring for .apprx.1 h at 25-30°, 5 g 15% aqueous Na2SO3 was added and the solution acidified with HCl to pH 4.5, and diluted with water to

make a 10% solution of the **polyacrylamide**, which was colorless and had NH2 content 16.0 mol%, CO2H content 1.1 mol%, and viscosity 32.5 cP initially, and NH2 content .apprx.13 mol% after 20 days, a **modified** polymer solution prepared similarly using extra NaOH instead of I gelled.

L11 ANSWER 30 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1986:593229 CAPLUS

DOCUMENT NUMBER:

105:193229

TITLE:

Paper manufacture

INVENTOR (S):

Nomura, Yoshinogi; Sakai, Kensaku Honshu Paper Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61063796	A2	19860401	JP 1984-183696 JP 1984-183696	19840904 19840904
PRIORITY APPLN. INFO.:			JP 1984-183696	13040304

AB Paper (containing $\geq 40\%$ ash) is manufactured by mixing pulp suspensions with

fillers and **cationic** polymers to increase the ζ -potential (Z) to a pos. value, then mixing with **anionic** polymers to change Z to -5 to -10 mV before papermaking. Thus, a suspension of softwood and hardwood bleached kraft pulps (Z -19 mV) was mixed with Hercon W (alkylketene dimer) 1, CaCO3 140, and number 3 Tapioca Dempun (**cationic modified** starch) 6% to make Z 5 mV, then mixed with 0.8% Polystron 117 (I) to change Z to -5 mV. Paper manufactured

from the

suspension contained 42% ash and had breaking length 3.9 km and opacity 85%, compared with 17, 3.9, and 77, resp., for paper manufactured from a similar pulp suspension (Z -6 mV) without I.

L11 ANSWER 31 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1986:212682 CAPLUS

DOCUMENT NUMBER:

104:212682

TITLE:

Dewatering of organic sludges

INVENTOR(S):

Sato, Hiroaki; Eto, Masanori; Igarashi, Chiaki

PATENT ASSIGNEE(S):

Ebara-Infilco Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 4 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61025699	A2	19860204	JP 1984-145612	19840713
PRIORITY APPLN. INFO.:			JP 1984-145612	19840713

AΒ Organic sludges are dewatered by mixing with cationic organic polymer coaqulants having colloidal cationic charge ≥5 mequiv/g dry matter at pH 4 and cationic organic polymer coagulants comprising poly(alkylaminoethyl acrylates), poly(alkylamino methacrylates), or their copolymers with polyacrylamides or their quaternary NH4+ salts, then dewatering the formed flocs. mixed raw sludge (pH 6.9; concentration 30.3 g/L) was mixed with 0.3% (based on

dry solids) polyamine (I) with cationic charge 7.2 mequiv/g and 0.7% (based on dry solids) dimethylamino methacrylate polymer with cationic charge 3.8 mequiv/g to form flocs, which were applied to a belt-press dehydrator, showing water content of cake 74.3% and throughput 97 kg (dry basis)/m-h, vs. 76.2% and 65 kg (dry basis)/m-h, resp., without the I.

L11 ANSWER 32 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1985:525269 CAPLUS

DOCUMENT NUMBER:

103:125269

TITLE:

Improving filler retention in paper manufacture

PATENT ASSIGNEE(S):

Seiko Chemical Industry Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60065195	A2	19850413	JP 1983-171334	19830919
JP 05040076	B4	19930617		•
PRIORITY APPLN. INFO.:			JP 1983-171334	19830919

Cationic starch and Hofmann degradation products of acrylamide AB polymers are added to an aqueous pulp slurry as filler retention aids. Thus,

100 parts hardwood bleached kraft pulp (as aqueous slurry) was mixed successively with 35 parts CaCO3, 0.15 part Hercon W size, 0.125 part Cato

[98227-06-6] (cation-modified starch), and 0.375 part Hofmann decomposition product (II) of a mixture of polyacrylamide and HOC2H4N+Me2CH2Ph Cl-. Paper made from the mixture had ash content 11.62% and filler retention 73.5% vs. 8.17% and 50.0%, resp., without I and 6.27% and 36.0%, resp., without II.

L11 ANSWER 33 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

PATENT ASSIGNEE(S):

1985:225795 CAPLUS

DOCUMENT NUMBER:

102:225795

TITLE:

SOURCE:

Flocculants for water treatment Toyo Soda Mfg. Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60019006	A2	19850131	JP 1983-125465	19830712
PRIORITY APPLN. INFO.:			JP 1983-125465	19830712

Suspended solns. are clarified by mixing with a coagulant, a copolymer of AΒ methacrylamide and unsatd. carboxylic acids, and adjusting the pH to ≤5. The flocculants are useful for water and wastewater treatment. Thus, 15 parts methacrylamide, 15 parts methacrylic acid, and 0.02 part Na

azobis[cyanovalerate] were mixed and stirred for 3 h at 50° to obtain a copolymer (A) with weight-average mol. weight 700 + 104.

mL 0.1% aqueous A was added to 100 mL 3% aqueous kaolin suspension; the suspension

was adjusted to pH 3.5 with 1N aqueous HCl, stirred, and allowed to stand for

5 min, showing transmittance of the supernatant 96%, vs. 11% using a com. polymer coagulant, an anion-modified polyacrylamide.

L11 ANSWER 34 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1985:190451 CAPLUS

DOCUMENT NUMBER:

102:190451

TITLE:

Sludge dewatering

PATENT ASSIGNEE(S):

Ebara-Infilco Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60005300	A2	19850111	JP 1983-111027	19830622
PRIORITY APPLN. INFO.:			JP 1983-111027	19830622

Night soil is screened, and the screened liquor is treated by an AB activated

sludge process, coagulation, and addition processes. The solid from the screening is rinse and the rinse waste is forwarded to the

activated-sludge process. The rinsed solid is mixed with concentrated sludges

from the activated sludge process and coagulation, mixed with a polymer coagulant (cation modified polyacrylamide)

and dewatered. The sludge cake contains 50% water and sludge production

is

minimized.

L11 ANSWER 35 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1985:133080 CAPLUS

DOCUMENT NUMBER:

102:133080

TITLE:

Cationic modified polyacrylamide

PATENT ASSIGNEE(S):

Harima Chemicals, Inc., Japan Jpn. Kokai Tokkyo Koho, 4 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				-
JP 59189102	. A2	19841026	JP 1983-62864	19830409
JP 04080924	B4	19921221		
PRIORITY APPLN. INFO.:			JP 1983-62864	19830409

AB Polyacrylamide (I) and hypohalite in an alkaline medium reacted with epihalohydrin-dialkylamine quaternary condensation product (d.p. 1-5) and a hydroxy-containing quaternary alkyl halide to give the title composition For

example, 50% aqueous (Me) 2NH 50% aqueous was mixed with 15% HCl 60.7 and epichlorohydrin 69.4 g, heated 2 h at 45-50°, mixed with 69.8 g choline-HCl and 133.3 g 15% aqueous NaOH, and heated 2 h at 45-50° to give a condensation product (A), of a solid content 20%. A mixture of

g polyacrylamide solution (concentration 16.3%; viscosity 7500 cP) and 19.2 g A were mixed with 40 g of a solution containing 1.8 g NaClO and

NaOH, heated 60 min at 25°, and adjusted pH 4.5 to give the title composition with 10% effective cationic I.

L11 ANSWER 36 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1983:216577 CAPLUS

DOCUMENT NUMBER:

98:216577

TITLE:

INVENTOR (S):

Easily dispersible water-soluble polymer composition Umekawa, Osamu; Ito, Yosuke; Katayama, Sakae

Katayama Chemical Works Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

Ger. Offen., 18 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3225246	A1	19830120	DE 1982-3225246	19820706
JP 58011553	A2 B4	19830122	JP 1981-108686	19810711

US 1982-393380 19820629 US 4409353 19831011 PRIORITY APPLN. INFO.: JP 1981-108686 19810711

Compns. with improved dispersibility and H2O solubility, having a high degree

of granulation and free fluidity, comprise a H2O-soluble polymer with flocculation properties, a Na sulfate hydrate, a Mg sulfate hydrate, and/or a hygroscopic compound Thus, a composition comprising partially hydrolyzed polyacrylamide (I) 5, Na2SO4.10H2O 2, and MgSO4 3 parts had good granulation and thermal stability, and was dispersible and soluble in H2O. A comparison composition comprising 10 parts partially hydrolyzed

I and no additives had satisfactory thermal stability, but was not granular and was not dispersible or soluble in H2O.

L11 ANSWER 37 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1982:186801 CAPLUS

DOCUMENT NUMBER:

96:186801

TITLE:

Sludge treatment

PATENT ASSIGNEE(S):

Ebara-Infilco Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57012900	A2	19820122	JP 1980-85436	19800624
PRIORITY APPLN. INFO.:			JP 1980-85436	19800624

Sludges are treated with H2O2 and a polymer coagulant to maintain the AΒ solid content to 10-500 g/L, stirred to pelletize, then the pellets are separated Thus, a sewage sludge was treated with H2O2 and a cationic modified polyacrylamide, then stirred to form pellets containing 87% moisture. The pellets were then pressed to dewater to 71% moisture.

L11 ANSWER 38 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1982:106059 CAPLUS

DOCUMENT NUMBER:

96:106059

TITLE: PATENT ASSIGNEE(S): Modified acrylamide for papermaking Hoshimitsu Chemical Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56144295	A2	19811110	JP 1980-45864	19800408
JP 62045884	B4	19870929		
PRIORITY APPLN. INFO.:			JP 1980-45864	19800408

Modified acrylamide polymers containing-AΒ CH2CR[NHCO2CH(CH2N+R1R2R3)(CH2)nN+R4R5R6 2X-]- and -CH2CR(NH2)- units (R

H, Me; R1, R2, R4, R5 = lower alkyl; R3, R6 = lower alkyl, PhCH2; X- = anion; n = 1-5) are papermaking additives as drainage aids, strengthening agents, and size and filler retention agents. For example, a mixture of 75 g 16% aqueous polyacrylamide (mol. weight 300,000) and 105 q 40% aqueous HOCH2(CH2N+Me3)2 2Cl- was treated with aqueous NaOCl-KOH at

25° for 60 min to give a 3% aqueous cationic polymer containing 23.5 mol% -CH2CH[NHCO2CH(CH2N+Me3)2 2Cl-] - units and 20.6 mol% -CH2CH(NH2) - units, useful as a papermaking aid.

L11 ANSWER 39 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

1981:32544 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 94:32544

Polyacrylamide modified TITLE:

cation solutions

Seiko Chemical Industry Co., Ltd., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 7 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55108405	A2	19800820	JP 1979-15915	19790214
JP 58008682	B4	19830217		
PRIORITY APPLN. INFO.:			JP 1979-15915	19790214

A cationic modified polyacrylamide (I) AB

[9003-05-8] solution that is used as a papermaking additive is prepared by

reacting I with a hypohalous acid salt under alkaline conditions, and reacting

the product with a cationic compound RC6H4CH2N+R1R2ZOHX- (II; Z = alkylene; R = H, lower alkyl; R1,R2 = lower alkyl, X- = anion) at 1-10 mol % based on amide groups of I and maintaining pH 3.5-5.5. Thus, 190 g of solution containing 8.4% I (average mol. weight 300,000),

1.5 g (R = H,R1 = R2 = Me, Z = CH2CH2, X = C1) [7221-40-1] (3 mol % per NH2 of I), and

97.7 g alkaline solution containing 30 g NaOCl and 3.7 g KOH were mixed at 25°

for .apprx.60 min. The pH of the converted polymer solution (III) was adjusted to 4.5 with HCl, and the solution was diluted to 0.12%. A 1% pulp

slurry was prepared from 2 g pulp beaten to 350 mL Canadian standard freeness

and was mixed with 2 mL III. The slurry was placed on a number 3 Toyo filter

paper, and the amount of water filtered in 2 min was measured. III-treated pulp yielded 92 mL compared with 89 mL from a paper treated with a slurry lacking II, and 31 mL from the filter paper alone.

L11 ANSWER 40 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1980:78475 CAPLUS

DOCUMENT NUMBER:

92:78475

TITLE: INVENTOR(S):

Self-coloring-type pressure-sensitive record sheet Yabuta, Kenji; Toyama, Koji; Fuchigami, Makoto;

Tsukahara, Hirokazu

PATENT ASSIGNEE(S):

Mitsubishi Paper Mills, Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54110008	A2	19790829	JP 1978-17388	19780217
AT 373826	В	19840227	AT 1979-7429	19791122
AT 7907429	A	19830715		
PRIORITY APPLN. INFO.:			JP 1978-17388	19780217

Crystal Violet Lactone (I) [1552-42-7] (20 parts) was dissolved in 200 AB parts SAS oil, mixed with 25 parts Coronate HL and 25 parts Banol D 750, emulsified with 5% aqueous Sumirez 614 Special (cationmodified formaldehyde-urea resin) [72485-00-8], mixed with 250 parts water containing 50 parts Epinox P 130, polymerized interfacially

at

60° for 3 h to form capsules having polyurea [72640-56-3] linkages, mixed (5 parts, dry) with pulp 100, a developer containing a p-phenylphenol resin 5, rosin 1, Al sulfate 2, and a cationmodified polyacrylamide 0.5 part, used to prepare paper sized with 3% aqueous oxidized starch, and pressed to give reflectance

the colorless area and 42.9% for the color area, compared with 63.4% and 49.1%, resp., for paper containing I in gelatin capsules.

L11 ANSWER 41 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1979:191605 CAPLUS

DOCUMENT NUMBER:

90:191605

TITLE:

Mineral fiber sheets with high strength

INVENTOR(S):

Yoshioka, Shigehiko; Hashimoto, Hajimu; Saito, Osamu Seiko Chemical Industry Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54003868	A2	19790112	JP 1977-69248	19770610
PRIORITY APPLN. INFO.:			JP 1977-69248	19770610

High-strength mineral fiber sheets are made from mineral fiber dispersions

by using a (2-7): (3-8) anion-modified

polyacrylamide-cation-modified

polyacrylamide (amine conversion of carboxyamide group ≥10%) mixture as binder. Thus, 90 g polyacrylamide was

mixed with 38 g water, reacted with 28.1 aqueous NaClO (effective Cl 12.8%)

and 7.1 g 48% KOH, and mixed with 70.4 g water to obtain a cation -modified polyacrylamide (amine conversion 24%) solution Then, a rock wool sheet was made with 2.4 com. anionmodified polyacrylamide and 1.6% cationmodified polyacrylamide. The sheet had deflective strength 352 and 219 g at relative humidity 45 and 95%, resp.

L11 ANSWER 42 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1979:39458 CAPLUS

DOCUMENT NUMBER:

90:39458

TITLE:

Continuous methods for production of a cationic modified acrylamide polymer

INVENTOR(S):

Tuka, Richard F.; Vossos, Peter H.; Nielsen, Ralph

R.;

Guardia, Carl J.

PATENT ASSIGNEE(S):

Nalco Chemical Co., USA

SOURCE:

Ger. Offen., 26 pp. CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
DE 2720494	A1	19781109	DE 1977-2720494	19770505
DE 2720494	C2	19850411		
CA 1085078	A1	19800902	CA 1977-274937	19770328
PRIORITY APPLN. INFO.:			DE 1977-2720494	19770505

AB Dilute aqueous solns. of cationic modified polyacrylamides are manufacture by forming a process stream of water, HCHO, secondary C2-4 alkylamines, and water-in-oil emulsions of finely divided polyacrylamides, under conditions such that the water-in-oil emulsions undergoes inversion and passing the stream through a mixer in turbulent flow to give the desired solution Thus, a process stream consisting of 37.8 m/min water was successively mixed with 6056.5 g/min 60% aqueous Me2NH, 439.1 g/min ethoxylated nonylphenols, 6220.2 g/min

37% aqueous HCHO, and 21440 g water-in-oil emulsion containing 25.4% polyacrylamide of intrinsic viscosity 8.5. The stream was then passed through a mixer in which the emulsion was inverted and reaction took place, giving a diluted aqueous solution containing 10.6 % Nmethylolpolyacrylamide.

L11 ANSWER 43 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1977:602365 CAPLUS

DOCUMENT NUMBER:

87:202365

TITLE:

Manniched polyacrylamide quaternaries Hunter, Wood E.; Sieder, Theodore P.

PATENT ASSIGNEE(S):

Nalco Chemical Co., USA

SOURCE:

U.S., 6 pp.

DOCUMENT TYPE:

INVENTOR(S):

CODEN: USXXAM Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	. KINI	DATE.	APPLICATION NO.	DATE
US 4049606	Α	19770920	US 1976-705973	19760716
PRIORITY APPLN. INFO.:			US 1976-705973	19760716

AB By utilizing sp. pH ranges Mannich derivs. of polyacrylamides and quaternized Manniched polyacrylamides were manufactured with improved yields. Thus, 216 g of a 37% aqueous solution of HCHO

[50-00-0] was

added dropwise over a period of 30 min to 947 g of a 20% solution of polyacrylamide [9003-05-8] at pH 5.0 and 30-5°. After 15 min at this temperature 300 g of a 40% aqueous solution of Me2NH

[124-40-3] was added

dropwise while maintaining the temperature ≤48-50° to give a product with 23.6% active cationic modification. Sulfuric acid was added to the above solution to adjust the pH to 8.3. The solution

heated to 80-110°, combined with 83 g methyl chloride, heated 3 h at 80-110° and cooled to give the quaternized product.

L11 ANSWER 44 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

PATENT ASSIGNEE(S):

1977:490420 CAPLUS

DOCUMENT NUMBER:

87:90420

TITLE:

Sludge dewatering

INVENTOR(S):

Horiguchi, Tadao; Miyata, Kazuo; Yamamoto, Kazumasa

Kurita Water Industries, Ltd., Japan

SOURCE:

Jpn. Tokkyo Koho, 7 pp. CODEN: JAXXAD

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51033867	B4	19760922	JP 1970-75626	19700831
PRIORITY APPLN. INFO.:			JP 1970-75626	19700831

A metal salt (Al or Fe); a low m.w. polycationic compound (cation AB modified polynuclear compound), polyamide, or polyamine; and a cation modified polyacrylamide are added to a sludge to improve dewatering, and the method is used to treat domestic or industrial sludges. For example, Al2(SO4)3.18H2O, a polyamide (mol. weight

several 1000), and a polyacrylamide [9003-05-8] (mol. weight 4.0-4.5 + 106) dewatered sludge at 92.4 kg/m2-h vs. 24.2 kg/m2-h for a comparison method.

CAPLUS COPYRIGHT 2004 ACS on STN L11 ANSWER 45 OF 55

ACCESSION NUMBER:

1977:458160 CAPLUS

DOCUMENT NUMBER:

87:58160

TITLE: INVENTOR(S): Sludge treatment

Saga, Masataka

PATENT ASSIGNEE(S):

Ebara-Infilco Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52030781	A2	19770308	JP 1975-107815	19750905
PRIORITY APPLN. INFO.:			JP 1975-107815	19750905

An emulsion containing petroleum oil, a surfactant, and a high polymer coagulant is added to a sludge, then the mixture is coagulated and dewatered. Thus, a mixed raw sewage was treated with an emulsion containing

oleylamine hydrochloride [41130-29-4], a cation-modified polyacrylamide [9003-05-8], and heavy oil, then dewatered. The dewatered cake contained 67.4% water.

L11 ANSWER 46 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1976:548609 CAPLUS

DOCUMENT NUMBER:

85:148609

TITLE:

Treatment of waste water containing nonionic

surfactant

INVENTOR(S):

Nakayama, Keiichi; Nakamura, Yoshinobu; Yoshida,

Tomoyuki; Suzuki, Takehiro; Kimura, Yuji Toho Chemical Industry Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51020466	A2	19760218	JP 1974-91478	19740812
PRIORITY APPLN. INFO.:		•	JP 1974-91478	19740812

Nonionic surfactant-containing waste water is mixed with a compound containing a

C>8-hydrocarbon group and CO2M, SO3M, and/or OSO3M (M = H, NH4, or monovalent metal) and then treated with an inorg. flocculant and optionally an organic flocculant. Thus, a solution 480 q (COD 923 ppm) containing

0.04% poly(oxyethylene) nonylphenyl ether [9016-45-9] was agitated with 8 ml 1% aqueous C12H25OSO3Na [151-21-3] at 20° for 1 min, mixed with 7.5 ml 1% aqueous polyaluminum chloride solution and 2 ml 0.1% aqueous solution of an

anion-modified polyacrylamide flocculant,

settled for 10 min, and filtered. The filtrate had COD 218 ppm.

L11 ANSWER 47 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1976:496058 CAPLUS

DOCUMENT NUMBER:

85:96058

TITLE:

Paper filler

INVENTOR (S):

Davidson, Richard Robertson Associated Portland Cement Manufacturers Ltd., UK

PATENT ASSIGNEE(S): SOURCE:

Ger. Offen., 56 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
DE 2555401	A1	19760616	DE 1975-2555401	19751209
DE 2555401	C2	19870212		
GB 1497280	Α	19780105	GB 1974-53309	19741210
FI 7503394	A	19760611	FI 1975-3394	19751202

FI 57150	В	19800229		
FI 57150	С	19800610		
SE 7513736	Α	19760611	SE 1975-13736	19751205
SE 427678	В	19830425		
SE 427678	C	19830804		
FR 2294268	A1	19760709	FR 1975-37560	19751209
FR 2294268	B1	19800125		
ES 443368	A1	19770416	ES 1975-443368	19751210
PRIORITY APPLN. INFO.:			GB 1974-53309	19741210

AB Adding inorg. fillers in the form of an agglomerate obtained by treating with an anionic flocculant, such as polyacrylamide (I) [9003-05-8], and an anionic deflocculant, such as polyacrylates, polyphosphates, and silicates, to cellulose pulp slurry gave paper with high filler retention. Thus, 2000 ml aqueous slurry containing 1.2 g bleached

kraft pulp and 0.001 g polymers from a mixture of natural chalk 1000, Dispex

W [60182-20-9] deflocculant 5.0, Percol E24 [60182-38-9] (anionic I) 2.0, and deionized H2O 285.0 g gave a paper with 13.0% filler content and 7 km breaking length as compared with 7.5% filler retention in paper obtained by using cationic I.

L11 ANSWER 48 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1976:436939 CAPLUS

DOCUMENT NUMBER:

85:36939

TITLE:

Treatment of sewage or sludge

INVENTOR(S):

Horiguchi, Tadao; Miyata, Kazuo; Yamamoto, Kazumasa

PATENT ASSIGNEE(S):

Kurita Water Industries, Ltd., Japan

SOURCE:

Jpn. Tokkyo Koho, 4 pp. CODEN: JAXXAD

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50027821	B4	19750910	JP 1970-74902	19700828
PRIORITY APPLN. INFO.:			JP 1970-74902	19700828

Treated effluents and sludge are coagulated by an Fe compound or an Al compound and cation-modified polyacrylamide or poly(acrylic acid) ester. Thus, FeCl3,6H2O 7.9 and partially aminomethylated polyacrylamide [9003-05-8] (mol. weight 2 + 106) 0.3% (based on dry sludge) were added to anaerobically digested sludge with vigorous stirring, which was followed by slow stirring (1 min). The treated sludge was filtered. The filtration rate was faster and filter cake water content was less than when the compds. were used alone.

L11 ANSWER 49 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1976:76008 CAPLUS

DOCUMENT NUMBER:

84:76008

TITLE:

Effect of high molecular weight cationic

drainage aids on the electrokinetic properties of

cellulose pulp

AUTHOR(S):

Horn, Dieter; Melzer, Jaroslav

CORPORATE SOURCE:

Hauptlab., BASF A.-G., Ludwigshafen, Fed. Rep. Ger.

SOURCE:

Papier (Bingen, Germany) (1975), 29(12), 534-41

CODEN: PAERAY; ISSN: 0031-1340

DOCUMENT TYPE: Journal LANGUAGE: German

The electrokinetic effectiveness of polymin SN (I) [9077-52-5] (modified polyethylenimine [9002-98-6]) and Sursolan K 12 L (II)

[58252-39-4] (modified polyacrylamide [9003-05-8]) as

drainage aids for bleached sulfite pulp with different fineness degree (Schopper-Riegler) was determined as a function of pH and aid dosing, and the

effect of anionic, cationic and nonionic interfering compds., e.g. oxidized starch (III) [9005-25-8], etc., on zeta potential in pulp-aid systems was studied. The zeta potential of pulp with 55° Schopper-Riegler was -8 mV over a broad pH range. Higher dosing (.apprx.25 fold) was required for II at pH 5.0 to obtain electroneutrality of interfaces than for I. The presence of interfering compds. decreased the zeta potential to near zero without causing a decrease of Schopper-Riegler fineness. The presence of 5% anionic -modified III did not change the neg. value of the zeta

potential within the measured ranges due to the slight cationic activity of II.

L11 ANSWER 50 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1976:8759 CAPLUS

DOCUMENT NUMBER:

84:8759

TITLE:

Removal of suspended solids from waste water

INVENTOR (S): Kato, Motohiko; Fujita, Toshimichi; Watanabe, Shun PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50041354	A2	19750415	JP 1973-91588	19730814
JP 56027309	B4	19810624		
PRIORITY APPLN. INFO.:			JP 1973-91588	19730814

Suspended solids and (or) oils in waste waters are treated with aqueous polymerized

latex, water-soluble inorg. salts, and high-mol.-weight flocculents at pH >5.

Thus, 100 parts of a waste water from a polymer synthesis plant (COD 1570 ppm) containing suspended solids was mixed with 0.5 part butadiene-styrene

copolymd. latex (butadiene 75, styrene 25%) at 25° and to this was added 5 parts of 1% Al2(SO4)3 [10043-01-3]. The pH of the mixture was adjusted to 7.4 with Ca(OH)2 and to this was added 5 ppm of an anion-modified polyacrylamide [9003-05-8].

Flocs were removed by filtration. The filtrate was colorless and its COD was 156 ppm.

L11 ANSWER 51 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1975:568219 CAPLUS

DOCUMENT NUMBER:

83:168219

TITLE:

Waste water treatment with anionic polymers

INVENTOR(S):

Yamamoto, Yasuo; Nakamura, Seiichi

PATENT ASSIGNEE(S):

Toa Gosei Chemical Industry Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50043758	A2	19750419	JP 1973-93191	19730820
PRIORITY APPLN. INFO.:			JP 1973-93191	19730820

AB Cationic high-mol.-weight electrolytes remaining in waste waters inhibit the activated sludge treatment. Addition of anionic high-mol.-weight electrolytes eliminates the substances that inhibit the activated sludge treatment. Thus, 0.3 ppm of a cation-modified polyacrylamide (I) (inhibitor) produced by treating polyacrylamide with Me2NH and HCHO was added to a brewery waste water containing 500 ppm BOD. An anion-modified polyacrylamide (II) was added to the waste water and the mixed solution aerated for 8 days. The treated water was allowed to stand to sep. the supernatant liquid and sludge. The BOD content

of the supernatant liquid was 32.8 ppm and that of controls treated without $\ensuremath{\mathsf{S}}$

I or II was 31.0~ppm, whereas that of waste water treated with I in the absence of II was 61.9~ppm.

L11 ANSWER 52 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1975:516343 CAPLUS

DOCUMENT NUMBER:

83:116343

TITLE:

Polyacrylamide derivatives

INVENTOR(S):

Tomlinson, Denise Hemlab A.-G., Switz.

PATENT ASSIGNEE(S):

Brit., 2 pp.

SOURCE:

CODEN: BRXXAA

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1366672	Α	19740911	GB 1971-6771	19720609
PRIORITY APPLN. INFO.:			GB 1971-6771 A	19720609

AB Cationic modified polyacrylamides were

manufactured which were useful as flocculating agents in purification of water,

effluent, and sewage and as ion exchangers. Thus, a suspension of **polyacrylamide** mol. weight >1,000,000 35.5, paraformaldehyde 5, and pyridine hydrochloride (C5H5N+H Cl-) 11.55 in pyridine 142 weight parts was

stirred 12 hr at 70-5° to give fine, granular, slightly colored [CH2CH(CONHCH2N+C5H5) Cl-]n containing .apprx.10 weight % combined C5H5N+H Cl-

and which absorbed .apprx.20 times its weight of H2O.

L11 ANSWER 53 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1972:490336 CAPLUS

DOCUMENT NUMBER:

77:90336

TITLE:

Paper and fiber finishing agents

INVENTOR(S):

Yoshioka, Narihiko; Hashimoto, Takeshi; Tafuchi,

Keisaburo

PATENT ASSIGNEE(S):

Seiko Chemical Industry Co., Ltd.

SOURCE:

Jpn. Tokkyo Koho, 4 pp.

CODEN: JAXXAD

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 46036485	B4	19711026	JP 1967-16350	19670317

AB An aqueous solution of polyacrylamide (I) [9003-05-8] prepared in the presence of N-glycidyl diethylenetriamine-itaconic acid copolyamide had better workability (lower viscosity) than com. available anion-modified I for papers. For example, a solution of 112 g diethylenetriamine and 124 g itaconic acid in 100 g water was freed from

water and heated at 160.deg.-8.deg. for 3 hr to give 210 g of a polyamide.

A solution of 40 g of the above polyamide in 170 g water was neutralized, treated with 17 g epichlorohydrin at 80-5 deg. for 3 hr, neutralized and diluted to a 10% solution A mixture of 270 g of a 10% aqueous acrylamide and 30 g

of the above N-glycidyl polyamide solution was treated with 0.9 g of 10% aqueous $\,$

(NH4)2S2O8 and 0.9 g of 10% aqueous NaHSO3, and heated at 75.deg. for 1 hr to

give a 10% solution A kraft hand sheet containing 0.3% (solids) of the above

composition (viscosity 600 cP) had burst strength 1.4 kg/cm2, compared with 1.2 $\,$

kg/cm2 for a paper treated with Star Gum A-10 (an anion-modified I, viscosity 20,000 cP).

L11 ANSWER 54 OF 55 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

ACCESSION NUMBER:

2003:280509 BIOSIS

DOCUMENT NUMBER: TITLE:

PREV200300280509

AUTHOR(S):

Soil formulation for resisting erosion. Harrison, Scott [Inventor, Reprint Author]

CORPORATE SOURCE:

8000 Jill Jean Ave., Bakersfield, CA, 93308, USA

PATENT INFORMATION: US 6562882 May 13, 2003

SOURCE:

Official Gazette of the United States Patent and Trademark

Office Patents, (May 13 2003) Vol. 1270, No. 2. http://www.uspto.gov/web/menu/patdata.html. e-file.

ISSN: 0098-1133 (ISSN print).

DOCUMENT TYPE:

Patent English

LANGUAGE: ENTRY DATE:

Entered STN: 11 Jun 2003

Last Updated on STN: 11 Jun 2003

AB Compositions and method for resisting soil erosion. The compositions comprise either an aqueous mixture of a polymer mixed with an organic material or, alternatively, a polymer and organic material that can be mixed in water. The polymer preferably comprises polyacrylamide having anionic functional groups and the organic base comprises either cellulose, mulch and/or seed and mulch.

The

methods of the present invention comprise providing or forming an aqueous mixture of the compositions of the present invention and applying them to an area of land sought to be provided with soil erosion resistance.

L11 ANSWER 55 OF 55 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

2004036686 EMBASE

TITLE:

Adsorption of cationic, anionic and

hydrophobically modified polyacrylamides

on silica surfaces.

AUTHOR:

Samoshina Y.; Diaz A.; Becker Y.; Nylander T.; Lindman B. Y. Samoshina, Physical Chemistry 1, Lund University, P.O.

Box 124, SE-221 00 Lund, Sweden.

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SOURCE:

Colloids and Surfaces A: Physicochemical and Engineering

Aspects, (31 Dec 2003) 231/1-3 (195-205).

Refs: 36

ISSN: 0927-7757 CODEN: CPEAEH

COUNTRY:

Netherlands

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:

029 Clinical Biochemistry

LANGUAGE:

English

SUMMARY LANGUAGE:

English

AB The adsorption of modified polyacrylamides (PAM) at

the silica surface has been studied by ellipsometry. To study the influence of the type of modification of the polyacrylamide on

the adsorption behaviour, we have used cationic, anionic

and hydrophobically modified polyacrylamides with

varying charge density and degree of hydrophobisation. The adsorbed amount

and adsorbed layer thickness were obtained at a neutral pH and at a constant ionic strength (c(KCl)=0.1M). The effect of surfactant present during the polymerisation process has also been investigated.

Cationic modified polyacrylamides have been

found to adsorb most strongly onto the silica surface and a large overcompensation of the surface charge has been observed in all cases.

For

cationic modified polyacrylamides having

additional hydrophobic groups the adsorbed amount decreases with density of hydrophobic groups, and the adsorbed layer thickness is larger.

Anionic modified polyacrylamides also adsorb

onto the negative silica surface, though the adsorbed amounts are small. The presence of the surfactant Tween 80 leads to an increase in the adsorbed amount for the polymers which adsorb weakly in the absence of

the

surfactant. However, for the polymers, which have already shown a good ability to adsorb on silica, the addition of surfactant has no significant

effect on the adsorbed amount. .COPYRGT. 2003 Elsevier B.V. All rights reserved.